aquaculture household survey

Field	Question	Answer			
SECTION A. HOUSEHOLD IDENTIFICATION					
A1 (required)	What is the location: Region		ER	Eastern Region	
			VR	Volta Region	
			ВА	Brong Ahafo Region	
			AS	Ashanti Region	
			777	Other (specify)	
A1i (required)	Please specify Region				
	Question relevant when: selected(\${A1} , '777')				

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	Field	Question	Answer	
	A2 (required)	What is the location: Zone	1	Adansi Zone
	Az (requireu)	Question relevant when: not(selected(\${A1} , '777'))		
		Question relevant when, hot(selected \$\pi(A1) \tau 1)	2	Ahafo Offin Zone
			3	Amansie Zone
			4	Asante Akim Zone
			5	Atwima Zone
			6	Sekyere Zone
			7	Azunafo Zone
			8	Dormaa Zone
			9	Kintampo Zone
			10	Sunyani Zone
			11	Tano Zone
			12	Techiman Zone
			13	Afram Plains Zone
			14	Akosombo Zone
			15	Kwaebibirem Zone
			16	New Juaben Zone
			17	KMA Zone
			18	Abutia
			19	Adaklu
			20	Adukope
				Agbokofe
			22	Agorta
			23	Akwetey
			24	Anloga-Zico
			25	Aveyime
			26	Bakpa tademe
			27	Blekope
			28	Gbi Atabu
			29	Godenu
			30	Have
			31	Hehekpoe
			32	Но
			33	Hohoe
			34	Keta-Anyanui
			35	Keta-Kedzi
			36	Keta-Kedzokope
			37	Keta-Tegbi
			38	Keta-Abutiakope
			39	Kpenoe
			40	Kpeve
			41	Krachi East
			42	Nkwanta
			43	Sokode
			44	Tafi Atome
			45	Tefle
			46	Vodze
			47	Woadze Tornu
			48	Ziavi
			777	Other (specify)
			7777	Other (specify)
			7777	7 Other (specify)
			77777	7 Other (specify)
	A2i (required)	Please specify Zone Question relevant when: selected(\${A2}, '777777') or selected(\${A2}, '77777') or selected(\${A2}, '7777') or selected(\${A1}, '7777')		
	A2_i (required)	What is the location: District		Adansi North
		Question relevant when: not(selected(\${A2}, '777777')) and not(selected(\${A2}, '777777'))		Obuasi Municipal
		and not(selected(\${A2} , '7777')) and not(selected(\${A2} , '777')) and not(selected(\${A1} ,	3 A	Asante-Akim North
		'777'))		Asante-Akim South
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41 Techiman North
42 Fanteakwa
43 Kwahu Afram Plains North
44 Kwahu East
45 Kwahu South
46 Kwahu West
47 Asuogyaman
48 Lower Manya Krobo
49 Upper Manya Krobo
50 Akyemmansa
51 Asene-Manso-Akroso
52 Birim North
53 Birim South
54 Denkyembour
55 Kwaebibirem
56 Abuakwa North
57 Abuakwa South
58 Adeiso
59 Atiwa East
60 Ayensuano
61 New Juaben North
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		_	_	Other (specify)
				O3 Other (specify)
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				11 Other (specify)
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				37 Other (specify)
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				41 Other (specify)
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			000	Citici (opeony)
A2_ii <i>(required)</i>	Please specify District			
	Question relevant when: selected(\${A2} , '777777') or selected(\${A2} , '77777') or selected(
	\${A2}, '7777') or selected(\${A2}, '777') or selected(\${A1}, '777') or selected(\${A2_i}, '501')			
	or selected(\${A2_i} , '503') or selected(\${A2_i} , '505') or selected(\${A2_i} , '507') or selected(
	\${A2_i}, '509') or selected(\${A2_i}, '511') or selected(\${A2_i}, '513') or selected(\${A2_i},			
	'515') or selected(\${A2_i} , '517') or selected(\${A2_i} , '519') or selected(\${A2_i} , '521') or			
	selected(\${A2_i}, '523') or selected(\${A2_i}, '525') or selected(\${A2_i}, '527') or selected(
	\${A2_i}, '529') or selected(\${A2_i}, '531') or selected(\${A2_i}, '533') or selected(\${A2_i},			
	'535') or selected(\${A2_i}, '537') or selected(\${A2_i}, '539') or selected(\${A2_i}, '541') or			
	selected(\${A2_i}, '543') or selected(\${A2_i}, '544') or selected(\${A2_i}, '545') or selected(
	\${A2_i}, '546') or selected(\${A2_i}, '547') or selected(\${A2_i}, '548')			
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	selected(\${A2_i}, '563') or selected(\${A2_j}, '564') or selected(\${A2_i}, '565') or selected(
	\${A2_i}, '566') or selected(\${A2_i}, '567') or selected(\${A2_i}, '568')			
	(\$569')			
A3 (required)	Name of community			
A10	Specific location or address			
5	[To easily locate farmer on our next visit, mark or note any distinct landmark]			
A4	GPS coordinates of farm			
	GPS coordinates can only be collected when outside.			
HHID (required)	Household ID			
	[Kindly double-check that it is correct]			

Field	Question	Answello, I am not willing to participate in the survey
	My name is and I work for FMMS, Water Research	
	Institute (WRI) and the International Food Policy Research Institute (IFPRI). We are conducting	
	this survey and study to help understand the constraints and opportunities in the tilapia sector in	
	Ghana.	
	You are randomly-chosen from the full list of about 800 cage and pond tilapia farmers compiled	
	and updated by the Fisheries Commission. You, as the most knowledgeable person on tilapia	
	farming, are chosen to respond to this interview. This interview will last about 2.5 hours; and will	
	mainly consist of questions about your tilapia production, costs, and sales, and a few questions	
	about the household. If other members of the household or other employee/manager of the farm	
	can best answer some of the questions, please feel free to ask them or to include them in some	
	parts of the interview. We will ask to interview separately for about 20 minutes another primary	
	decisionmaker in your household (of the opposite gender), such as your spouse, to understand	
	from their perspective their participation in fish farming and other livelihoods of the household.	
	Your participation to this survey is voluntary. If you choose to participate, you may refuse to	
	answer certain questions, or you may stop participating at any time. There is no foreseen risk to	
	your participation in this survey, except for the 2.5 hours you will spend with our survey team.	
	We ask for your support by responding to the questions as honestly and fully as possible. Your	
	responses will be kept COMPLETELY CONFIDENTIAL. This is not an assessment of your	
	efforts and there are no right or wrong answers. We just would want to know your actual	
	practices and the challenges you face in order to understand how we can improve the fish seed,	
	technologies and services we develop and promote. The answers you provide will not be shared	
	with regulators or any accreditation team. There will be no names that will be linked to any	
	responses or data. Your responses will be summed together with those of 800 other farmers in	
	Ghana and general averages from analysis will be reported. These averages and general trends	
	and patterns by region or farming system will be very useful for the researchers, breeders and	
	policymakers in improving seeds, technologies and services available to fish farmers.	
	In two years (2021), we will visit you again to identify and assess what changes have occurred in	
	your practices and farming operations as part of the evaluation of the project. We hope that you	
	will again welcome us and support us in that next round of survey.	
	If you have questions about this survey or study, you may contact any of the following:	
	Dr. Seth Agyakwah at WRI [email: agyaseth@yahoo.com telephone numbers: (+233)	
	343020786]	
	Dr. Eduardo Maruyama, Institutional Review Board in IFPRI in Washington DC, USA [email:	
	ifpri-irb@cgiar.org telephone number: (+1) 202-862-5630].	
	You can ask questions concerning the study, both before agreeing to be involved and during the	
	course of the study.	
	Do you indicate your voluntary consent to participate in this interview: may we begin?	
Consented		
Group relevant when: selected(\${Consent} ,	(1)	
A01 (required)	Is your farm operational or non-operational?	1 Active farmer (farmed in 2018/2019)
		2 New farmer (Completed production but did not
		harvested yet)
		3 New farmer (have not started production yet or
		just started)
		4 Inactive (have not farmed in 2018/2019)
Consented > Inactive		
Group relevant when: selected(\${A01} , '4		
A02 (required)	Last year of operation	
	Response constrained to: . <= date('2019-12-31')	

A03 (required) Why did you stop operation?	1 High fingerling mortality
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eld	Question	An	sw 2	Fish disease
				High fish mortality
			-	No/low demand/market for tilapia
			5	
		Н	6	
		\vdash	-	
			7	· ·
		-		business/livelihood
		_	77	7 Other (specify)
A03_i <i>(required)</i>	Please specify Question relevant when: selected(\${A03}, '777')			
A04 (required)	Do you plan to re-start your fish farming operation?	т	1	Yes
The food many	and the form of th	\vdash		No
AOE (security of)	If you would be being and to being to word on Each familiary would you like the attention	\vdash	-	
A05 (required)	If we provide training and technical support on fish farming, would you like to attend?	-	-	Yes
		_	0	No
A06 (required)	If we provide training, technical support and good quality fingerlings, would you be interested to		1	Yes
	re-start (a potential project can only support through these, and not financial support)?		0	No
Crown relevant when a placeted (\$\)(4.00)			-/	ad/ 6(A04) 100
	04} , '1') or selected(\${A05} , '1') or selected(\${A06} , '1') or selected(\${A01} , '1') or selected(\${A01} , '2')	UI SE	iect	συ(φ{MU I} , · υ)
Consented > Active > SECTION B.				
B1	What is the name of your farm?			
DO (no modes 1)	If farm does not have a name, continue	-		
B2 (required)	How far is your farm from your home?			
P3i (required)	Enter 999 if farmer don't know Unit for distance from farm to home		4	V
B2i <i>(required)</i>		-		Km
	Question relevant when: \${B2} > 0 and \${B2} != 999		2	Miles
			3	Meters
			5	Minutes (walk)
			4	Can't answer
B3 (required)	Main reasonatant's name			
	Main respondent's name		Ι.	
B4 (required)	Main respondent's role in the farm		1	
			2	Manager/Caretaker
			77	7 Other (specify)
B4i (required)	Please specify your role in the farm Question relevant when: selected(\${B4}), '777')			
DC	1.1.2.	-		
B5	Main respondent's telephone number			
	Response constrained to: ((string-length(.)>=10 and string-length(.)<=10) and not(regex(.,'\(.*)			
	[lp{Alpha}](.*)\$')) and not(regex(.,'^(.*)ls(.*)\$')) and not(regex(.,'^(.*)[lp{Punct}](.*)\$')))			
B6	Second phone number			
	Response constrained to: string-length(.)=10			
B7 (required)	What is the main respondent's gender?		1	Male
	Enumerator should just fill this out, don't ask		0	Female
B8	Ago of main respondent	Н	-	
Do	Age of main respondent A rough estimate is fine			
B9 (required)	What is your (main respondent's) highest education level?		1	No schooling
(, - 4\)	2 (
		-	2	•
		_	3	, , , ,
			4	Technical or Vocational (after Junior Hi
			5	Senior Secondary School (SSS/SHS)
			6	Polytechnic/Diploma (after Senior High
			7	University/College degree
			8	, , ,
			9	
		-	-	-
		-	/7	7 Other (Specify)
B9i (required)	Specify your highest education level Question relevant when: selected(\${B9}, '777')			
B10 (required)	What is your marital status?		1	Married/consensual union
- (- 4- ===/				
		-		Single
				Separated
			1.4	
		L	4	Divorced
				Divorced Co-habitation/living together

B11 (required) What is your type of household?		1	Household with both male and female adults	1
--	--	---	--	---

2 [aquaculture_flouseriolu_survey_labor_printable (2).fit			rougonoia mui pour maio ana fornato ada
ld	(Read out loud the options) SIP/S[ADULT is defined as those 18 years old and above, including self, Question Spouse, children and other household members. Household is defined as those eating together in same	An	s₩eli	lousehold with male adult(s) only
	pot and stay in the home for at least 6 moths in a year.]		3 F	lousehold with female adult(s) only
B12 (required)	Is your household polygamous or monogamous?		1	Polygamous
	Question relevant when: selected(\${B10}, '1')		2	Monogamous
				Refuse to answer
B13 (required)	Is your husband/wife absent for more than 5 months in the year?			
B13 (required)	, ,	-	1 \	
	Question relevant when: selected(\${B10}, '1')		1 0	NO
B14 (required)	What is your religion?		4	None
			1	Christian
			2	Muslim
			3	Traditional
			888	Refuse to answer
			777	Other (please specify)
B14i <i>(required)</i>	Please specify your religion			(1)
Biti (required)				
P45 () 0	Question relevant when: selected(\${B14} , '777')			
B15 (required)	Is the owner of the farm the same person as the farm manager?	-	1 \	
			1 0	No.
Consented > Active > SECTION B. RESI	PONDENT'S PROFILE > Owner/investor profile			
Group relevant when: (selected(\${B4}	, '777') and selected(\${B15} , '1')) or (selected(\${B4} , '777') and selected(\${B15} , '0')) or (selected	d(\${B	34},	'2') and selected(\${B15} , '0'))
B2a <i>(required)</i>	How far is the farm/firm to the owner's home?			
	Enter 999 if farmer don't know			
B2ai <i>(required)</i>	Unit of distance from farm to owners home		1 k	Km
	Question relevant when: \${B2a} > 0 and \${B2a} != 999		2 1	Miles
			3 1	Meters
			5 N	/linutes (walk)
				Can't answer
			4 (Sant answer
B3a	What is the owner's name?			
	Response constrained to: not(regex(.,'^(.*) d(.*)\$'))			
B5a	What is the owner's telephone number			
	Response constrained to: (string-length(.)>=10 and string-length(.)<=10)			
B6a	Owner's second telephone number			
	Response constrained to: ((string-length(.)>=10 and string-length(.)<=10) and not(regex(.,'^(.*)			
	[lp{Alpha}](.*)\$')) and not(regex(.,'^(.*)\s(.*)\$')) and not(regex(.,'^(.*)[\p{Punct}](.*)\$')))			
B7a <i>(required)</i>	What is the owner's gender?		1 N	Male
			0 F	emale
B8a	What is the owner's age?		-	
Боа	Rough estimate is fine			
	What is the highest education level of the owner?		1	No schooling
		\vdash		
				Primary school
В9а		-	3	Junior Secondary School (JSS/JHS)
			4	Technical or Vocational (after Junior Hi
			5	Senior Secondary School (SSS/SHS)
			6	Polytechnic/Diploma (after Senior High)
			7	University/College degree
			8	Postgraduate/Master's degree
			9	Doctorate Degree
				Other (Specify)
			111	Other (Opecity)
D0 : (1 0	Please specify education level			
B9ai <i>(required)</i>				
	Question relevant when: selected(\${B9a}, '777')			
	Question relevant when: selected(\${B9a}, '777') PONDENT'S PROFILE > Manager/Caretaker			
Consented > Active > SECTION B. RESE				
Consented > Active > SECTION B. RESE	PONDENT'S PROFILE > Manager/Caretaker			
Consented > Active > SECTION B. RESI Group relevant when: (selected(\${B4})	PONDENT'S PROFILE > Manager/Caretaker , '1') and selected(\${B15}, '0')) or (selected(\${B4}, '777') and selected(\${B15}, '0')) How far is the farm/firm to the manager/caretaker's home? Enter 999 if farmer don't know			
Consented > Active > SECTION B. RESI Group relevant when: (selected(\${B4})	PONDENT'S PROFILE > Manager/Caretaker , '1') and selected(\${B15} , '0')) or (selected(\${B4} , '777') and selected(\${B15} , '0')) How far is the farm/firm to the manager/caretaker's home?		1 F	(m
Consented > Active > SECTION B. RESP Group relevant when: (selected(\${B4}) B2c (required)	PONDENT'S PROFILE > Manager/Caretaker , '1') and selected(\${B15}, '0')) or (selected(\${B4}, '777') and selected(\${B15}, '0')) How far is the farm/firm to the manager/caretaker's home? Enter 999 if farmer don't know			Km Miles
Consented > Active > SECTION B. RESI Group relevant when: (selected(\${B4}) B2c (required)	PONDENT'S PROFILE > Manager/Caretaker , '1') and selected(\${B15}, '0')) or (selected(\${B4}, '777') and selected(\${B15}, '0')) How far is the farm/firm to the manager/caretaker's home? Enter 999 if farmer don't know Unit of distance from farm to manager's home		2 N	
Consented > Active > SECTION B. RESI Group relevant when: (selected(\${B4}) B2c (required)	PONDENT'S PROFILE > Manager/Caretaker , '1') and selected(\${B15}, '0')) or (selected(\${B4}, '777') and selected(\${B15}, '0')) How far is the farm/firm to the manager/caretaker's home? Enter 999 if farmer don't know Unit of distance from farm to manager's home		2 N	/liles /leters
Consented > Active > SECTION B. RESI Group relevant when: (selected(\${B4}) B2c (required)	PONDENT'S PROFILE > Manager/Caretaker , '1') and selected(\${B15}, '0')) or (selected(\${B4}, '777') and selected(\${B15}, '0')) How far is the farm/firm to the manager/caretaker's home? Enter 999 if farmer don't know Unit of distance from farm to manager's home		2 M 3 M 5 M	Miles

B4c What is the manager/caretaker's telephone number?	
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Field	Enter 999 and proceed, if don't know Question Response constrained to: ((string-length(.)>=10 and string-length(.)<=10) and not(regex(., "(.*)	Answer
	[lp{Alpha}](.*)\$')) and not(regex(.,'^(.*)ls(.*)\$')) and not(regex(.,'^(.*)[lp{Punct}](.*)\$'))) or .='999'	
B5c	Manger/caretaker's second telephone number Enter 999 and proceed, if don't know Response constrained to: ((string-length(.)>=10 and string-length(.)<=10) and not(regex(., "\(.*)) [\p\{Alpha}]\(.*)\\$')) and not(regex(., "\(.*)\\$')) or .='999'	
B6c <i>(required)</i>	What is the manager/caretaker's gender?	1 Male
		0 Female
B7c	What is the manager/caretaker's age?	
Bic	A rough estimate is fine	
B8c (required)	What is the manager/caretaker's highest level of education?	1 No schooling
		2 Primary school
		3 Junior Secondary School (JSS/JHS)
		4 Technical or Vocational (after Junior High)
		5 Senior Secondary School (SSS/SHS)
		6 Polytechnic/Diploma (after Senior High)
		7 University/College degree
		8 Postgraduate/Master's degree
		9 Doctorate Degree
		777 Other (Specify)
B8ci <i>(required)</i>	Please specify the manager/caretaker's highest level of education Question relevant when: selected(\${B8c}, '777')	
C0 (required)	Do you keep any of these written records?	5 None
	if multiple, select all that applies	Sketch plan of the farm indicating structures,
	Response constrained to: if(selected(., '5'), count-selected(.) =1, count-selected(.) >=1)	water sources and layout
		2 Harvest record
		3 Sales record
		4 Record on stocking density, size of fish at
		stocking and date of stocking
Consented > Active > Record-keeping practice Group relevant when: not(selected(\${CC})		(Repeated group)
C0b (required)	Did respondent show a proof/document for the (Sketch plan of the farm indicating structures,	1 Yes
	water sources and layout)?	0 No
	Ask for a proof/document	
	Question relevant when: selected(\${CO} , \${CO_id})	
Consented > Active > Record-keeping practice		(Repeated group)
Group relevant when: not(selected(\${CC		
C0b (required)	Did respondent show a proof/document for the (Harvest record)?	1 Yes
	Ask for a proof/document Question relevant when: selected(\${C0}, \${C0_id})	0 No
Consented > Active > Record-keeping prac		(Repeated group)
Group relevant when: not(selected(\${CC		(Nepeated group)
C0b (required)	Did respondent show a proof/document for the (Sales record)?	1 Yes
	Ask for a proof/document Question relevant when: selected(\${C0}, \${C0_id})	0 No
Concented > Active > Decord learning was		(Deposted every)
Consented > Active > Record-keeping practice of the Consented > Active > Active > Record-keeping practice of the Consented > Active > Activ		(Repeated group)
C0b (required)	Did respondent show a proof/document for the (Record on stocking density, size of fish at	1 Yes
	stocking and date of stocking)?	0 No
	Ask for a proof/document	
	Question relevant when: selected(\${C0} , \${C0_id})	
Pb_1 (required)	Please I will like to ask you some questions about the characteristics of your farm.	1 Yes, I can remember
	Can you remember the following about your farm?	0 No, I can't remember
	Number of cages or ponds used, stocking rate, harvest, source of fingerlings etc.	
	Question relevant when: selected(\${A01}, '4')	
Pb_1_i (required)	What production culture did you practice?	1 Cage
	Question relevant when: selected(\${Pb_1}, '0')	2 Pond
		3 Both cage and pond
Pb_1_ii <i>(required)</i>	How many operational cages did you have during your last full production season/cycle?	
	Question relevant when: selected(\${Pb_1}, '0') and not(selected(\${Pb_1_i}, '2'))	
Pb_1_iii <i>(required)</i>	How many operation ponds did you have during your last full production season/cycle	
	Question relevant when: selected(\${Pb_1}, '0') and not(selected(\${Pb_1_i}, '1'))	

nC <i>(required)</i>	What production culture do you practice?	1 Cage
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d	Question relevant when: ((selected(\${A04} , '1') or selected(\${A05} , '1') or selected(\${A06} ,	Ans	s₩eli	Pond
	'1')) and selected(\${Pb_1}, '1')) or selected(\${A01}, '1') or selected(\${A01}, '2') or selected(3 B	Both cage and pond
	\$(A01) , '3')			
Consented > Active > Fish farm characte				
Consented > Active > Fish farm character	cteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle)			
Group relevant when: selected(\${n0	S} , '1') or selected(\${nC} , '3')			
C1 (required)	What species do you farm?		1	Tilapia only
	Select all that apply. If polyculture, select more than 1 specie		2	Cat fish only
			3	Heterotis only
			4	Tilapia and Cat fish
			777	Other (specify)
C1i (required)	Please specify specie			
(1.14	Question relevant when: selected(\${C1}, '777')			
C2 (required)	How many cages do you have set-up (both operational and not operational)?			
C3 (required)	How many cages did you use during last full production season/cycle?			
		. 0-4	C - I-	and Blanca
	racteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle)	> Cat	TISN	and tilapia
Group relevant when: selected(\${				
C4_xa (required)	What are the sizes of the cages you used for (Tilapia and Cat fish) during last full production			5 x 5 x 5
	season/cycle?			6 x 6 x 6
	If multiple, select all that applies		3	7 x 7 x 7
			4	10 x 10 x 10
			777	other (specify)
C4_xai <i>(required)</i>	Specify other cage size for (Tilapia and Cat fish)			
	Question relevant when: selected(\${C4_xa}, '777')			
C4_xb (required)	Most common cage size for (Tilapia and Cat fish) production on your farm?		1	5 x 5 x 5
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			6 x 6 x 6
				7 x 7 x 7
		\vdash		
			4	10 x 10 x 10
			777	
C4_xc_i (required)	Stocking rate per cage for (Tilapia) in this most common cage size [[cage_size_name1tc]]?			
	Stocking rate = (Number of fingerlings)			
C4_xc_ii <i>(required)</i>	Stocking rate per cage for (Cat fish) in this most common cage size [[cage_size_name1tc]]?			
C4_xd_i <i>(required)</i>	Stocking rate = number of fingerlings What is the survival rate for (Tilapia) in this most common cage size [[cage_size_name1tc]]?			
C4_Xu_i (requireu)	In the state survival rate to the paper in this most common cage size [[cage_size_name it.]]! [lof the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number/sbr/> Finder 1999 if don't know			
	Unit for survival rate		1 N	lumber of fingerlings that survived
	Question relevant when: \${C4_xd_i} > 0 and \${C4_xd_i} != 999		2 P	Percentage of fingerlings that survived
OA and it is so as too di	,, ,,		- -	
C4_xd_i_i (required)				
C4_xd_ii <i>(required)</i>	What is the survival rate for (Cat fish) in this most common cage size [[cage_size_name1tc]]?			
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] rumber] Finer 999 if don't know			
C4_xd_ii_i <i>(required)</i>	Unit for survival rate		1 N	lumber of fingerlings that survived
,	Question relevant when: \${C4_xd_ii} > 0 and \${C4_xd_ii} != 999			Percentage of fingerlings that survived
C4_xe <i>(required)</i>	Total harvest for (Tilapia) during the most recent full production season/cycle (tonnes) in 1 single			
OT_AG (IGYUIIGU)	([cage size name1tc]) cage?			
	([cage_size_name+tc]) cage ? (1 tonne = 1000 kg) sr/>Enter 999 if don't know			
	Question relevant when: selected(\${A01}, '1') or selected(\${A01}, '4')			
C4_xe_ii <i>(required)</i>	Total harvest for (Cat fish) during the most recent full production season/cycle (tonnes) in 1 single			
— — V - 4	([cage_size_name1tc]) cage?			
	(1 ton = 1000kg) st/>Enter 999 if don't know			
	Question relevant when: selected(\${A01}, '1') or selected(\${A01}, '4')			
C4_xf (required)	What is the 2nd most common cage size for (Tilapia and Cat fish) production?		1	5 x 5 x 5
	Question relevant when: count-selected(\${C4_xa}) > 1			6 x 6 x 6
				7 x 7 x 7
		\vdash		10 x 10 x 10
		\vdash		
			777	
C4_xg_i (required)	Stocking rate per cage for (Tilapia) in this 2nd most common cage size [[cage_size_name2tc]]?			
	Stocking rate = (Number of fingerlings)			
	Question relevant when: count-selected(\${C4_xa}}) > 1			
C4_xg_ii <i>(required)</i>	Stocking rate per cage for (Cat fish) in this 2nd most common cage size [[cage_size_name2tc]]?			
	Stocking rate = (Number of fingerlings) Question relevant when: count-selected(\${C4_xa}) > 1			

		<u> </u>				
Field	C4_xh_i (required)	Whelsigh survival rate for (Tilapia) in this 2nd most common cage size [[cage_size_name2tc]]? [of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] https://scnter.999 if don't know	Ans	wer		
		Question relevant when: count-selected(\${C4_xa}) > 1				
	C4_xh_i_i (required)	Unit for survival rate		1 N	umber of fingerlings that survived	
		Question relevant when: \${C4_xh_i} > 0 and \${C4_xh_i} != 999		2 P	ercentage of fingerlings that survived	
	C4_xh_ii <i>(required)</i>	What is the survival rate for (Cat fish) in this 2nd most common cage size [[cage_size_name2tc]]? [of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] Pri>Enter 999 if don't know Question relevant when: count-selected(\${C4_xa}) > 1				
	C4_xh_ii_i (required)	Unit for survival rate		1 N	umber of fingerlings that survived	
		Question relevant when: \${C4_xh_ii} > 0 and \${C4_xh_ii} != 999		2 P	ercentage of fingerlings that survived	
	C4_xi (required)	What was the starting month for your most recent full production cycle for (Tilapia and Cat fish)?		1	January	
		if multiple, select all that applies		2	February	
				3	March	
				4	April	
			П	5	May	
				6	June	
				7	July	
					August	
			Н		September	
					October	
			Н		November	
			Н		December	
	C4_xj (required)	What was the starting year for your most recent full production cycle for (Tilapia and Cat fish)?	Н	1 2		
	C4_X] (required)	what was the starting year for your most recent full production cycle for (mapia and Gat lish):	-	2 2		
			-	3 2		
			-			
				4 2		
			-	5 2		
				6 2	019	
	C4_xk <i>(required)</i>	How many months was the most recent full production cycle from stocking to last harvest for (Tilapia and Cat fish) If 6 months 2 weeks, write 6.5; if 6 months 1 week, write 6.25 br/>Enter 666 if new farmer				
	C4_xl (required)	How many cages did you use during last full production cycle/season for (Tilapia and Cat fish)? 666 = I am a new farmer Question relevant when: \${C4_xk} != 666				
	C4_xm1 (required)	How many tonnes of (Tilapia) did you harvest in the ([C4_xt]) cages? (1 tonne = 1000 kg) There 999 if don't know Question relevant when: (selected(\${A01}, '1') or selected(\${A01}, '4')) and \${C4_xk}! = 666				
	C4_xm2 (required)	How many tonnes of (Cat fish) did you harvest in the ([C4_xI]) cages? 1 ton = 1000kg Fine 1999 if don't know Question relevant when: (selected(\${A01}, '1') or selected(\${A01}, '4')) and \${C4_xk}! = 666				
	C4_xn (required)	Is your production/harvest of (Tilapia and Cat fish) increasing or decreasing over the last 5 years?		1 ir	ncreasing	
		Question relevant when: selected(\${A01}, '1')	2 decreasing			
			3 same			
				4 N	ot applicable (I am a new farmer)	
	C4_xo (required)	What do you think is the reason production/harvest is ([C4_xn_name])?		1	high and increasing fish price	
		If multiple, select all that applies		2	high and increasing demand from market	
		Question relevant when: selected(\${C4_xn}, '1') or selected(\${C4_xn}, '2')		3	higher yield/productivity	
			4	I am becoming an expert and I have improved technical knowledge now		
				5	diseases and fish/fingerling mortality	
				6	higher inputs prices	
				7	unavailable inputs	
				8	lower fish prices and lower market demand	
				9	theft issues	
				10	Don't know/Can't tell	
				777	Other (specify)	
	C4_xoi (required)	Please specify reason Question relevant when: selected(\${C4_xo}, '777')				
	Consented > Active > Figh form charge	teristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle)	(Pa	nest	ed group)	
	Tilapia only (1)		(148	peal	ou g, oup)	
	Group relevant when: selected(\${C}	[} , '1') or selected(\${C1} , '2') or selected(\${C1} , '3') or selected(\${C1} , '777')				

	rm chara Question nd species > CAGE CULTURE (production and harvest for the last 1 full season or cycle dex() <= 3, selected(-\${C1}, index()), selected(-\${C1}, '777'))		. , , , , , , , , , , , , , , , , , , ,
C4 (required)	What are the sizes of the cages you used for (Tilapia only) during last full production season/cycle?	1	5 x 5 x 5
	If multiple, select all that applies	2	6 x 6 x 6
		3	7 x 7 x 7
		4	10 x 10 x 10
		77	7 other (specify)
C4i <i>(required)</i>	Specify other cage size for (Tilapia only)		
	Question relevant when: selected(\${C4} , '777')		
C4a (required)	Most common cage size for (Tilapia only) production on your farm?		5 x 5 x 5
			6 x 6 x 6
		3	7 x 7 x 7
			10 x 10 x 10
		77	7
C4b (required)	Stocking rate per cage for (Tilapia only) in this most common cage size [[cage_size_name1]]? Stocking rate = (Number of fingerlings)		
C4bi (required)	What is the survival rate for (Tilapia only) in this most common cage size [[cage_size_name1]]?		
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] br/>Enter 999 if don't know		
C4bi_i (required)	Unit for survival rate	1	Number of fingerlings that survived
•	Question relevant when: \${C4bi} > 0 and \${C4bi} != 999		Percentage of fingerlings that survived
C5a <i>(required)</i>	Total harvest for (Tilapia only) during the most recent full production season/cycle (tonnes) in 1		
	single ([cage_size_name1]) cage?		
	(1 tonne = 1000 kg) spr/>Enter 999 if don't know or 666 if new farmer		
	Question relevant when: selected(\${A01}, '1') or selected(\${A01}, '4')		
C4c (required)	What is the 2nd most common cage size for (Tilapia only) production?	1	5 x 5 x 5
	Question relevant when: count-selected(\${C4}) > 1	2	6 x 6 x 6
		3	7 x 7 x 7
		4	10 x 10 x 10
		77	7
C4d (required)	Stocking rate per cage for (Tilapia only) in this 2nd most common cage size [[cage_size_name2]]?		
	Stocking rate = (Number of fingerlings)		
	Question relevant when: count-selected(\${C4}) > 1		
C4di (required)	What is the survival rate for Tilapia only in this 2nd most common cage size [[cage_size_name2]]? [of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total		
	number] rumber] / Enter 999 if don't know		
044: : (Question relevant when: count-selected(\${C4}) > 1		
C4di_i <i>(required)</i>	Unit for survival rate		Number of fingerlings that survived
	Question relevant when: \${C4di} > 0 and \${C4di} != 999		Percentage of fingerlings that survived
C5b (required)	What was the starting month for your most recent full production cycle for (Tilapia only)?	1	January
	if multiple, select all that applies	2	February
		3	March
		4	April
		5	May
		6	June
		7	July
		8	August
		9	September
		10	October
		11	November
		12	December
C5bi (required)	What was the starting year for your most recent full production cycle for (Tilapia only)?	1	2014
			2015
			2016
			2017
			2018
			2019
	How many months was the most recent full production cycle from stocking to last harvest for		
C5c (required)	many monaro was the most recent fair production cycle from stocking to last harvest for		
C5c (required)	(Tilania only)		
C5c (required)	(Tilapia only) If 6 months 2 weeks, write 6.5; if 6 months 1 week, write 6.25 br/>Enter 666 if new farmer		
C5c (required) C5cii (required)			

ield C5d	d (required)	Questiony tonnes of (Tilapia only) did you harvest in all the ([C5cii]) cages (tonnes)? (1 tonne = 1000 kg)	An	swer	
		Question relevant when: (selected(\${A01} , '1') or selected(\${A01} , '4')) and \${C5c} != 666			
C6	(required)	Is your production/harvest of (Tilapia only) increasing or decreasing over the last 5 years?		1 ir	ncreasing
		Question relevant when: selected(\${A01}, '1')			lecreasing
			-		ame
				4 N	Not applicable (I am a new farmer)
C6i	(required)	What do you think is the reason production/harvest is ([c6_name])?		1	high and increasing fish price
		If multiple, select all that applies		2	high and increasing demand from market
		Question relevant when: selected(\${C6}, '1') or selected(\${C6}, '2')		3	higher yield/productivity
				4	I am becoming an expert and I have
					improved technical knowledge now
				5	diseases and fish/fingerling mortality
			-		
			-	6	higher inputs prices
				7	unavailable inputs
				8	lower fish prices and lower market dema
				9	theft issues
				10	Don't know/Can't tell
				777	Other (specify)
Cei	i (required)	Places aposity recess		1	
Col	ii <i>(required)</i>	Please specify reason			
		Question relevant when: selected(\${C6i}, '777')			
	nted > Active > Fish farm charac sh only (2)	teristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle)	(Re	peat	ed group)
Group	p relevant when: selected(\${C	1} , '1') or selected(\${C1} , '2') or selected(\${C1} , '3') or selected(\${C1} , '777')			
Cons	ented > Active > Fish farm char	racteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle	e) > C	at fis	h only (2) > cage production
Gro	oup relevant when: if(index() <=	: 3, selected(\${C1} ,index()), selected(\${C1} ,'777'))			
	(required)	What are the sizes of the cages you used for (Cat fish only) during last full production		1	5 x 5 x 5
	(4)	season/cycle?			
		If multiple, select all that applies	-		6 x 6 x 6
		manufol, coroci an mai apprico		3	7 x 7 x 7
				4	10 x 10 x 10
				777	other (specify)
C4i	(required)	Specify other cage size for (Cat fish only)			
		Question relevant when: selected(\${C4} , '777')			
C4a	a (required)	Most common cage size for (Cat fish only) production on your farm?		1	5 x 5 x 5
	(1.040.100)				
			-		6 x 6 x 6
				3	7 x 7 x 7
				4	10 x 10 x 10
				777	
C4b	b (required)	Stocking rate per cage for (Cat fish only) in this most common cage size [[cage_size_name1]]?			
		Stocking rate = (Number of fingerlings)			
C4k	bi <i>(required)</i>	What is the survival rate for (Cat fish only) in this most common cage size [[cage_size_name1]]? [of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total			
		number] br/>Enter 999 if don't know			
C4b	bi_i <i>(required)</i>	Unit for survival rate		1 N	lumber of fingerlings that survived
		Question relevant when: \${C4bi} > 0 and \${C4bi} != 999		2 F	Percentage of fingerlings that survived
C5a	a (required)	Total harvest for (Cat fish only) during the most recent full production season/cycle (tonnes) in 1			
		single ([cage_size_name1]) cage?			
		(1 tonne = 1000 kg) Enter 999 if don't know or 666 if new farmer			
		Question relevant when: selected(\${A01}, '1') or selected(\${A01}, '4')			
	c (required)	What is the 2nd most common cage size for (Cat fish only) production?		1	5 x 5 x 5
C4c <i>(re</i>		Question relevant when: count-selected(\${C4}) > 1			6 x 6 x 6
C40		1 *** **	-		7 x 7 x 7
C40					
C4c			H		
C4c				4	10 x 10 x 10
C4c					
	d (required)	Stocking rate per cage for (Cat fish only) in this 2nd most common cage size [[cage_size_name2]]? Stocking rate = (Number of fingerlings)	•	4	
	d (required)			4	
C4c	d (required) di (required)	Stocking rate = (Number of fingerlings) Question relevant when: count-selected(\${C4}) > 1 What is the survival rate for Cat fish only in this 2nd most common cage size [[cage_size_name2]]? [of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] rumber] Finter 999 if don't know		4	
C4c		Stocking rate = (Number of fingerlings) Question relevant when: count-selected(\${C4}) > 1 What is the survival rate for Cat fish only in this 2nd most common cage size [[cage_size_name2]]? [of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total		4	
C4c		Stocking rate = (Number of fingerlings) Question relevant when: count-selected(\${C4}) > 1 What is the survival rate for Cat fish only in this 2nd most common cage size [[cage_size_name2]]? [of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] rumber] Finter 999 if don't know		4 777	

b (required)	What the starting month for your most recent full modulation and for (Cat fish only)?			
	Whether the starting month for your most recent full production cycle for (Cat fish only)?	Ans	ewer	January
	if multiple, select all that applies		2	February
			3	March
			4	April
				May
		\vdash		
		-		June
		ш	7	July
			8	August
			9	September
			10	October
			11	November
				December
		\vdash	_	
bi (required)	What was the starting year for your most recent full production cycle for (Cat fish only)?	ш	1 2	014
			2 2	015
			3 2	016
			4 2	017
			-	
		\vdash	-	
			6 2	019
c (required)	How many months was the most recent full production cycle from stocking to last harvest for (Cat fish only) If 6 months 2 weeks, write 6.5: if 6 months 1 week, write 6.25chr/>Enter 666 if new farmer.			
cii <i>(required</i>)				
Cii (requireu)	O if none ### O if none <td></td> <td></td> <td></td>			
d (required)	How many tonnes of (Cat fish only) did you harvest in all the ([C5cii]) cages (tonnes)? (1 tonne = 1000 kg)			
			_	
(required)	Is your production/harvest of (Cat fish only) increasing or decreasing over the last 5 years?		1 ir	ncreasing
	Question relevant when: selected(\${A01}, '1')		2 d	ecreasing
			3 s	ame
			4 N	lot applicable (I am a new farmer)
: (an accion di	What do you think in the reason production/how cost is /foc. normal/2			1
C6i (required)				high and increasing fish price
		ш	2	high and increasing demand from mark
	Question relevant when selected \(\psi_{\text{OO}}\), \(\text{T}\) of selected \(\psi_{\text{QOO}}\), \(\text{Z}\)		3	higher yield/productivity
			4	I am becoming an expert and I have
				improved technical knowledge now
			5	diseases and fish/fingerling mortality
		-		higher inputs prices
			7	unavailable inputs
			8	lower fish prices and lower market dem
			9	theft issues
			10	Don't know/Can't tell
		Н	10	
				Other (specify)
			777	
ii <i>(required)</i>	Please specify reason		777	
ii <i>(required)</i>	Please specify reason Question relevant when: selected(\${C6i}, '777')		777	
	Question relevant when: selected(\${C6i}, '777')	(Re		ed group)
nted > Active > Fish farm char rotis only (3)		(Re		ed group)
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${\cdot \cdot \c	Question relevant when: selected(\${C6i}, '7777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle)		peat	
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${\epsilon}{\text{ented}} > Active > Fish farm ch	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1}, '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle)		peat	
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${e} ented > Active > Fish farm ch oup relevant when: if(index() <	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1), '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) = 3, selected(\${C1}, index()), selected(\${C1}, '777'))		peat	otis only (3) > cage production
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${\epsilon}{\text{ented}} > Active > Fish farm ch	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1}, '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle (\$=3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production		peat etero	otis only (3) > cage production
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${e} ented > Active > Fish farm ch oup relevant when: if(index() <	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1), '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle = 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle?		peat	otis only (3) > cage production 5 x 5 x 5 6 x 6 x 6
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${e} ented > Active > Fish farm ch oup relevant when: if(index() <	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1}, '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle (\$=3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production		peat	otis only (3) > cage production
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${e} ented > Active > Fish farm ch oup relevant when: if(index() <	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1), '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle = 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle?		peat	otis only (3) > cage production 5 x 5 x 5 6 x 6 x 6
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${e} ented > Active > Fish farm ch oup relevant when: if(index() <	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1), '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle = 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle?		peat	5 x 5 x 5 6 x 6 x 6 7 x 7 x 7 10 x 10 x 10
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${i sented > Active > Fish farm ch oup relevant when: if(index() < (required)	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1}, '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) (= 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle? If multiple, select all that applies		peat	tis only (3) > cage production 5 x 5 x 5 6 x 6 x 6 7 x 7 x 7
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${e} ented > Active > Fish farm ch oup relevant when: if(index() <	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1}, '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle (= 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle? If multiple, select all that applies Specify other cage size for (Heterotis only)		peat	5 x 5 x 5 6 x 6 x 6 7 x 7 x 7 10 x 10 x 10
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${i sented > Active > Fish farm ch coup relevant when: if(index() < (required)	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1), '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) = 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle? If multiple, select all that applies Specify other cage size for (Heterotis only) Question relevant when: selected(\${C4}, '777')		peat	5 x 5 x 5 6 x 6 x 6 7 x 7 x 7 10 x 10 x 10
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${i sented > Active > Fish farm ch oup relevant when: if(index() < (required)	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1}, '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle (= 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle? If multiple, select all that applies Specify other cage size for (Heterotis only)		peater c 1 2 3 4 7777	5 x 5 x 5 6 x 6 x 6 7 x 7 x 7 10 x 10 x 10
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${i sented > Active > Fish farm ch coup relevant when: if(index() < (required)	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1), '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) = 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle? If multiple, select all that applies Specify other cage size for (Heterotis only) Question relevant when: selected(\${C4}, '777')		1 2 3 4 7777	stis only (3) > cage production $5 \times 5 \times 5$ $6 \times 6 \times 6$ $7 \times 7 \times 7$ $10 \times 10 \times 10$ other (specify)
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${i sented > Active > Fish farm ch coup relevant when: if(index() < (required)	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1), '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) = 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle? If multiple, select all that applies Specify other cage size for (Heterotis only) Question relevant when: selected(\${C4}, '777')		1 2 3 4 7777	5x5x5 6x6x6 7x7x7 10x10x10 other (specify) 5x5x5 6x6x6
nted > Active > Fish farm char rotis only (3) up relevant when: selected(\${i sented > Active > Fish farm ch coup relevant when: if(index() < (required)	Question relevant when: selected(\${C6}, '777') acteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) C1), '1') or selected(\${C1}, '2') or selected(\${C1}, '3') or selected(\${C1}, '777') aracteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle) = 3, selected(\${C1}, index()), selected(\${C1}, '777')) What are the sizes of the cages you used for (Heterotis only) during last full production season/cycle? If multiple, select all that applies Specify other cage size for (Heterotis only) Question relevant when: selected(\${C4}, '777')		1 2 3 4 7777 1 2 3	stis only (3) > cage production $5 \times 5 \times 5$ $6 \times 6 \times 6$ $7 \times 7 \times 7$ $10 \times 10 \times 10$ other (specify) $5 \times 5 \times 5$
	bi (required) c (required) di (required) (required)	How many months was the most recent full production cycle from stocking to last harvest for (Cat fish only) If 6 months 2 weeks, write 6.5; if 6 months 1 week, write 6.25 How many cages did you use during last full production cycle/season for (Cat fish only)? 0 if none 0 if none	How many months was the most recent full production cycle from stocking to last harvest for (Cat fish only) If 6 months 2 weeks, write 6.5; if 6 months 1 week, write 6.25 Fine months 2 weeks, write 6	What was the starting year for your most recent full production cycle for (Cat fish only)? 1

ld	C4b (required)	Stocking rate = (Number of fingerlings) Stocking rate = (Number of fingerlings)	Ans	swe	r
	C4bi <i>(required)</i>	What is the survival rate for (Heterotis only) in this most common cage size [[cage_size_name1]]? [of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number]-bhr/>Enter 999 if don't know			
	C4bi_i (required)	Unit for survival rate		1 1	Number of fingerlings that survived
		Question relevant when: \${C4bi} > 0 and \${C4bi} != 999		2 1	Percentage of fingerlings that survived
	C5a (required)	Total harvest for (Heterotis only) during the most recent full production season/cycle (tonnes) in 1 single ([cage_size_name1]) cage? (1 tonne = 1000 kg) br/> Enter 999 if don't know or 666 if new farmer Question relevant when: selected(\${A01}, '1') or selected(\${A01}, '4')			
	C4c (required)	What is the 2nd most common cage size for (Heterotis only) production?		1	5 x 5 x 5
		Question relevant when: count-selected(\${C4}) > 1		2	6 x 6 x 6
				3	7 x 7 x 7
				4	10 x 10 x 10
					,
	C4d (required)	Stocking rate per cage for (Heterotis only) in this 2nd most common cage size [[cage_size_name2]]? Stocking rate = (Number of fingerlings) Question relevant when: count-selected(\${C4}) > 1			
	C4di <i>(required)</i>	What is the survival rate for Heterotis only in this 2nd most common cage size [[cage_size_name2]]? [of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] number] Enter 999 if don't know Question relevant when: count-selected(\${C4}) > 1			
	C4di_i (required)	Unit for survival rate		1 1	Number of fingerlings that survived
		Question relevant when: \${C4di} > 0 and \${C4di} != 999		2 F	Percentage of fingerlings that survived
	C5b (required)	What was the starting month for your most recent full production cycle for (Heterotis only)?		1	January
		if multiple, select all that applies			February
					March
					April
					May
					June
					July
				8	August
				9	September
				10	October
				11	November
				12	December
	C5bi (required)	What was the starting year for your most recent full production cycle for (Heterotis only)?		1 2	2014
				2 2	2015
				3 2	2016
				4 2	2017
					2018
					2019
	C5c (required)	How many months was the most recent full production cycle from stocking to last harvest for		0 2	2013
		(Heterotis only)			
		160 mm the 0 mm the 0.5 160 mm the 4 mm the 0.05 the 6 5 the 0.00 16 mm to			
		If 6 months 2 weeks, write 6.5; if 6 months 1 week, write 6.25 Enter 666 if new farmer			
	C5cii (required)	How many cages did you use during last full production cycle/season for (Heterotis only)? O if none br/>666 = I am a new farmer Question relevant when: \${C5c} I = 666			
	C5cii (required) C5d (required)	How many cages did you use during last full production cycle/season for (Heterotis only)? 0 if none bi/>666 = I am a new farmer			
		How many cages did you use during last full production cycle/season for (Heterotis only)? 0 if none br/>666 = I am a new farmer Question relevant when: \${C5c}! = 666 How many tonnes of (Heterotis only) did you harvest in all the ([C5cii]) cages (tonnes)? (1 tonne = 1000 kg) Question relevant when: (selected(\${A01} , '1') or selected(\${A01} , '4')) and \${C5c}! = 666		1 1	ncreasing
	C5d (required)	How many cages did you use during last full production cycle/season for (Heterotis only)? 0 if none-br/>666 = I am a new farmer Question relevant when: \${C5c} != 666 How many tonnes of (Heterotis only) did you harvest in all the ([C5cii]) cages (tonnes)? (1 tonne = 1000 kg) Question relevant when: (selected(\${A01}, '1') or selected(\${A01}, '4')) and \${C5c} != 666 Is your production/harvest of (Heterotis only) increasing or decreasing over the last 5 years?		-	ncreasing
	C5d (required)	How many cages did you use during last full production cycle/season for (Heterotis only)? 0 if none br/>666 = I am a new farmer Question relevant when: \${C5c}! = 666 How many tonnes of (Heterotis only) did you harvest in all the ([C5cii]) cages (tonnes)? (1 tonne = 1000 kg) Question relevant when: (selected(\${A01} , '1') or selected(\${A01} , '4')) and \${C5c}! = 666		2 (ncreasing decreasing same

ld C6i (required)	**Types flow of the control of the c	Ans	ı9wa	high and increasing fish price
	If multiple, select all that applies Question relevant when: selected(\${C6}, '1') or selected(\${C6}, '2')		2	high and increasing demand from marke
	Question relevant when, selected (\$\psi_{\text{OU}}\circ_{\text{f}}\) of selected \$\psi_{\text{OU}}\circ_{\text{f}}\)		3	higher yield/productivity
			4	I am becoming an expert and I have
				improved technical knowledge now
		Ш	5	diseases and fish/fingerling mortality
			6	higher inputs prices
			7	unavailable inputs
			8	lower fish prices and lower market dema
			9	theft issues
			10	Don't know/Can't tell
			777	Other (specify)
C6ii (required)	Please specify reason			'
	Question relevant when: selected(\${C6i}, '777')			
Consented > Active > Fish f	arm characteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle)	(Rep	peat	ed group)
> [C1_name] (4)				
Group relevant when: sele	ected(\${C1} , '1') or selected(\${C1} , '2') or selected(\${C1} , '3') or selected(\${C1} , '777')			
	farm characteristics and species > CAGE CULTURE (production and harvest for the last 1 full season or cycle	e) > [C	1_n	ame] (4) > cage production
	'index() <= 3, selected(\${C1}, index()), selected(\${C1}, '777'))	, ,		
C4 (required)	What are the sizes of the cages you used for ([C1_name]) during last full production season/cycle?		1	5 x 5 x 5
	If multiple, select all that applies			6 x 6 x 6
		\Box		7 x 7 x 7
			4	10 x 10 x 10
				other (specify)
O 4: (111	other (specify)
C4i <i>(required)</i>	Specify other cage size for ([C1_name])			
	Question relevant when: selected(\${C4} , '777')			
C4a <i>(required)</i>	Most common cage size for ([C1_name]) production on your farm?			5 x 5 x 5
				6 x 6 x 6
				7 x 7 x 7
			4	10 x 10 x 10
			777	·
C4b (required)	Stocking rate per cage for ([C1_name]) in this most common cage size [[cage_size_name1]]?			
	Stocking rate = (Number of fingerlings)			
C4bi <i>(required)</i>	What is the survival rate for ([C1_name]) in this most common cage size [[cage_size_name1]]?			
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] number] Enter 999 if don't know			
C4bi_i (required)	Unit for survival rate		1 N	Number of fingerlings that survived
	Question relevant when: \${C4bi} > 0 and \${C4bi} != 999		2 F	Percentage of fingerlings that survived
C5a (required)	Total harvest for ([C1_name]) during the most recent full production season/cycle (tonnes) in 1			
	single ([cage_size_name1]) cage?			
	(1 tonne = 1000 kg) Senter 999 if don't know or 666 if new farmer			
	Question relevant when: selected(\${A01}, '1') or selected(\${A01}, '4')			
C4c (required)	What is the 2nd most common cage size for ([C1_name]) production?		1	5 x 5 x 5
	Question relevant when: count-selected(\${C4}) > 1		2	6 x 6 x 6
			3	7 x 7 x 7
			4	10 x 10 x 10
			777	
C4d (required)	Stocking rate per cage for ([C1_name]) in this 2nd most common cage size [[cage_size_name2]]?			1
(4>	Stocking rate = (Number of fingerlings)			
	Question relevant when: count-selected(\${C4}) > 1			
C4di (required)	What is the survival rate for [C1_name] in this 2nd most common cage size [[cage_size_name2]]?			
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total			
	number] Finter 999 if don't know			
C440: 1 / · · · · · · · · · · · · · · · · · ·	Question relevant when: count-selected(\${C4}) > 1		, .	
C4di_i <i>(required)</i>	Unit for survival rate		_	Number of fingerlings that survived
	Question relevant when: \${C4di} > 0 and \${C4di} != 999		2 F	Percentage of fingerlings that survived

Field	C5b (required)	Whestien the starting month for your most recent full production cycle for ([C1_name])?	An	swe	rJanuary
		if multiple, select all that applies	_		February
					March
				-	
			-		April
			-		May
					June
				7	July
				8	August
				9	September
				10	October
				11	November
				12	December
	C5bi <i>(required)</i>	What was the starting year for your most recent full production cycle for ([C1_name])?		1	2014
	Cost (required)	That was the starting year for your most recent fall production bysic for ([61_name]).			2015
			-		
					2016
				4	2017
				5	2018
				6	2019
	C5c (required)	How many months was the most recent full production cycle from stocking to last harvest for ([C1_name]) If 6 months 2 weeks, write 6.5; if 6 months 1 week, write 6.25 Enter 666 if new farmer			
	C5cii <i>(required)</i>	How many cages did you use during last full production cycle/season for ([C1_name])? 0 if none br/>666 = I am a new farmer			
		Question relevant when: \${C5c} != 666			
	C5d <i>(required)</i>	How many tonnes of ([C1_name]) did you harvest in all the ([C5cii]) cages (tonnes)? (1 tonne = 1000 kg) Question relevant when: (selected(\$/4011, '1') or selected(\$/4011, '1')) and \$/C5cl = 666			
	C6 (required)	Question relevant when: (selected(\${A01}, '1') or selected(\${A01}, '4')) and \${C5c}! = 666	-	<u>.</u> ا ړ	
	C6 (required)	Is your production/harvest of ([C1_name]) increasing or decreasing over the last 5 years? Question relevant when: selected(\${A01}, '1')			ncreasing
					decreasing
				3	same
				4	Not applicable (I am a new farmer)
	C6i (required)	What do you think is the reason production/harvest is ([c6_name])?		1	high and increasing fish price
		If multiple, select all that applies		2	high and increasing demand from market
		Question relevant when: selected(\${C6}, '1') or selected(\${C6}, '2')		3	higher yield/productivity
				4	I am becoming an expert and I have
				4	
			-	-	improved technical knowledge now
				5	
				6	
				7	unavailable inputs
				8	lower fish prices and lower market demand
				9	theft issues
				10	Don't know/Can't tell
				777	Other (specify)
	C6ii (required)	Please specify reason			
	· - (Question relevant when: selected(\${C6i}, '777')			
	223 (required)	Do you have plans to increase or expand production under cage culture in the next 3 years?		1	Increase
C	C23 (required)	Question relevant when: selected(\${A01}, '1') or selected(\${A01}, '2') or selected(*{A01}, '2	-		
			_		Decrease
		(3)			Keep the same
				4	Don't know
С	23i <i>(required)</i>	Why		1	High market demand
		Question relevant when: selected(\${C23}, '1') or selected(\${C23}, '2')		2	Low market demand
				3	High fish prices
				4	Low fish prices
				5	Very profitable
				-	
			_	6	Not profitable
				7	· · ·
				8	High cost of production/inputs
				9	Disease and high fish/fingerling mortality
				10	I want to expand and export
				44	
				1.1.1	I want to expand to processing
				-	I want to expand to processing Other (specify)

C23ii (required)	Classtienecify Question relevant when: selected(\${C23i}, '777')	Ar	iswe	r
Consented > Active >	Fish farm characteristics and species > POND CULTURE			
	n: selected(\${nC} , '2') or selected(\${nC} , '3')			
C7 (required)	How many ponds does your household have (operational and non-operational)			
C8 (required)	How many ponds did your household use during last full production season/cycle?			
	> Fish farm characteristics and species > POND CULTURE > Pond # (1) (1)	(R	eneat	ted group)
C9 (required)	What species do you farm in your pond # (1)?	(, ,	1	Tilapia
00 (/oquii0u)	Select all that apply. If polyculture, select more than 1 specie		2	
			-	Heterotis
			-	
00: (, , , , ,			111	Other (specify)
C9i (required)	Please specify specie			
040- (22-22-24-24)	Question relevant when: selected(\${C9}, '777')			
C10a (required)	What is the Length of the pond # (1)? Please enter 999 if do not know			
	Response constrained to: (.>=1 and .<=100000) or .=999			
C10ai (required)	What is the unit of length		1 1	-eet
0.00. (Question relevant when: \${C10a} > 0 and \${C10a} != 999		-	Meter
C10b (required)	What is the Width of the pond # (1)?		2 1	victor
C TOD (required)	Please enter 999 if do not know			
	Response constrained to: .<=20000 or .=999			
C10bi (required)	What is the unit of width		1 F	eet
	Question relevant when: \${C10b} > 0 and \${C10b} != 999		2 1	Veter
C10c (required)	What is the DEEP Depth of pond # (1)?			
O 100 (regained)	Please enter 999 if do not know			
	Response constrained to: .<=20000 or .=999			
C10ci (required)	Unit of Deep depth		1 F	Feet
	Question relevant when: \${C10c} > 0 and \${C10c} != 999		2 1	Meter
C10d (required)	What is the SHALLOW depth of the pond # (1)?			
2 122 (10421100)	Please enter 999 if do not know			
	Response constrained to: .<=20000 or .=999			
C10di (required)	Unit of shallow depth		1 F	-eet
	Question relevant when: \${C10d} > 0 and \${C10d} != 999		2 1	Vleter
C11 (required)	What type of pond is pond # (1)?		1	Concrete
			2	Earthen pond
			3	Earthen with plastic
			4	Hapas installed in ponds
			5	Earthen + Concrete
			6	Dam Dam
			-	
		-	-	Tank
			111	Other (specify)
C11i (required)	Please specify the type of pond			
	Question relevant when: selected(\${C11}, '777')			
	> Fish farm characteristics and species > POND CULTURE > Single pond			
Group relevant w	• •	1		
Consented > Acti	re > Fish farm characteristics and species > POND CULTURE > Single pond > Tilapia (1)	(R	epeat	ted group)
C14x_i (require		s)		
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] number] Fine 1999 if don't know			
	Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777'))		
C14x_ii <i>(require</i>				
	Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777')	,		
C14x_ii_i <i>(requ</i>			1 1	Number of fingerlings that survived
' '	Question relevant when: \${C14x_ii} > 0 and \${C14x_ii} != 999		-	Percentage of fingerlings that survived
C14x_iii <i>(requir</i>		le from	- '	2.22ago or migoringo that our vivou
0 1+x_III (16QuII	this pond?	10 110111		
	1 ton = 1000kg			
	Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777'),	,		
Consented > Acti	re > Fish farm characteristics and species > POND CULTURE > Single pond > Cat fish (2)		epeat	ted group)
C14x_i (require		· ·		
2 <u></u> (1.594110	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total	. ,		
	number] br/>Enter 999 if don't know			

(C14x_ii <i>(required)</i>	Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777'))	Ansv	wer
(C14x_ii_i <i>(required)</i>	Unit for survival rate	1	Number of fingerlings that survived
		Question relevant when: \${C14x_ii} > 0 and \${C14x_ii} != 999		2 Percentage of fingerlings that survived
	C14v iii (required)		-	- Torontage or imigerininge that our troop
,	C14x_iii <i>(required)</i>	How many tonnes of (Cat fish) did you harvest in your most recent full production season/cycle		
		from this pond? 1 ton = 1000kg		
		Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777'))		
			/D	
		n characteristics and species > POND CULTURE > Single pond > Heterotis (3)	(кер	eated group)
(C14x_i <i>(required)</i>	Stocking rate for (Heterotis) in your pond during last full production cycle (number of fingerlings)		
		[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] number] First 999 if don't know		
		Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777'))		
	C14x_ii <i>(required)</i>	Survival rate for (Heterotis) in your pond		
`	o i in [roquirou]	Question relevant when: if (index() ≤ 3 , selected($\{C9\}$, index()), selected($\{C9\}$, '777'))		
				No select of formation at the state of the state of
		Unit for survival rate		Number of fingerlings that survived
		Question relevant when: \${C14x_ii} > 0 and \${C14x_ii} != 999	2	Percentage of fingerlings that survived
(C14x_ii_i <i>(required)</i>			
(C14x_iii <i>(required)</i>	How many tonnes of (Heterotis) did you harvest in your most recent full production season/cycle		
		from this pond?		
		1 ton = 1000kg		
		Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777'))		
Co	onsented > Active > Fish farm	characteristics and species > POND CULTURE > Single pond > [C14x_name] (4)	(Rep	eated group)
(C14x_i <i>(required)</i>	Stocking rate for ([C14x_name]) in your pond during last full production cycle (number of		
		fingerlings)		
		[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total		
		number] Enter 999 if don't know		
		Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777'))		
(C14x_ii <i>(required)</i>	Survival rate for ([C14x_name]) in your pond		
		Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777'))		
(C14x_ii_i <i>(required)</i>	Unit for survival rate	1	Number of fingerlings that survived
		Question relevant when: \${C14x_ii} > 0 and \${C14x_ii} != 999	2	Percentage of fingerlings that survived
(C14x_iii <i>(required)</i>	How many tonnes of ([C14x_name]) did you harvest in your most recent full production		
	= (,,	season/cycle from this pond?		
		1 ton = 1000kg		
		Question relevant when: if(index() <= 3, selected(\${C9}, index()), selected(\${C9}, '777'))		
C1	4x_iv <i>(required)</i>	What was the starting month for the most recent full production season/cycle for this pond		1 January
		If multiple, select all that apply		2 February
				3 March
			\vdash	
				4 April
				5 May
				6 June
				7 July
				8 August
				9 September
				10 October
				11 November
				12 December
	14	Miles and the state of the stat		
C1	4x_v <i>(required)</i>	What was the starting year for the most recent full production season/cycle for this pond?		1 2014
		If multiple, select all that apply	2	2 2015
			3	3 2016
			4	2017
				5 2018
				5 2019
C1	4x_vi <i>(required)</i>	How many months was the most recent full production cycle from stocking to last harvest?	,	1 - 1
CI	TALYI (TOYUIIGU)	If 6 months and 2 weeks, write 6.5; if 7 months and 1 week, write 7.25 etc.		
Cons	sented > Active > Fish farm c	haracteristics and species > POND CULTURE > Biggest tilapia pond		
	roup relevant when: \${C8} > 1			
	2a <i>(required)</i>	What species do you grow in your biggest tilapia pond?		1 Tilania
C1	iza (requireu)	What species do you grow in your biggest tilapia pond? If more than 1 specie in same pond, select all that applies	\vdash	1 Tilapia
		when i oposio in same point, solvet all that applies	\square	2 Cat fish
				3 Heterotis
			7	Other (specify)
	l2ai <i>(required)</i>	Please specify specie		
C1	1 / /			
C1		Question relevant when: selected(\${C12a}, '777')		

	Question	Answer
Consented > Active > Fish	farm characteristics and species > POND CULTURE > Biggest tilapia pond > Tilapia (1) > production big p	pond
Group relevant when: if(ii	ndex() <=3, selected(\${C12a} , \${C12a_id}), selected(\${C12a} , '777'))	
bp_stocking (required)	Stocking rate for (Tilapia) in your biggest tilapia pond during last full production cycle (number of	:
	fingerlings)	
	Enter 999 to proceed, if don't know	
bp_survival (required)	Survival rate for (Tilapia) in your biggest tilapia pond	
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] rumber] Enter 999 if don't know	
bp_survival_i <i>(required)</i>	Unit for survival rate	1 Number of fingerlings that survived
	Question relevant when: \${bp_survival} > 0 and \${bp_survival} != 999	2 Percentage of fingerlings that survived
bp harvest (required)	How many tonnes of (Tilapia) did you harvest in your most recent full production season/cycle fro	
bp_narvest (required)	this pond?	****
	1 tonne = 1,000kg	
	Question relevant when: selected(\${A01}, '1')	
Consented > Active > Fish far	m characteristics and species > POND CULTURE > Biggest tilapia pond > Cat fish (2)	(Repeated group)
Consented > Active > Fish	farm characteristics and species > POND CULTURE > Biggest tilapia pond > Cat fish (2) > production big	pond
Group relevant when: if(ii	ndex() <=3, selected(\${C12a} , \${C12a_id}), selected(\${C12a} , '777'))	
bp_stocking (required)	Stocking rate for (Cat fish) in your biggest tilapia pond during last full production cycle (number	
	of fingerlings)	
	Enter 999 to proceed, if don't know	
bp_survival (required)	Survival rate for (Cat fish) in your biggest tilapia pond	
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] number] Enter 999 if don't know	
bp_survival_i (required)	Unit for survival rate	1 Number of fingerlings that survived
. =	Question relevant when: \${bp_survival} > 0 and \${bp_survival} != 999	2 Percentage of fingerlings that survived
bp_harvest (required)	How many tonnes of (Cat fish) did you harvest in your most recent full production season/cycle	3
spairoot (required)	from this pond?	
	1 tonne = 1,000kg	
	Question relevant when: selected(\${A01} , '1')	
Consented > Active > Fish far	m characteristics and species > POND CULTURE > Biggest tilapia pond > Heterotis (3)	(Repeated group)
Consented > Active > Fish	farm characteristics and species > POND CULTURE > Biggest tilapia pond > Heterotis (3) > production big	g pond
Group relevant when: if(in	ndex() <=3, selected(\${C12a} , \${C12a_id}), selected(\${C12a} , '777'))	
bp_stocking (required)	Stocking rate for (Heterotis) in your biggest tilapia pond during last full production cycle (number	
	of fingerlings)	
	Enter 999 to proceed, if don't know	
bp_survival (required)	Survival rate for (Heterotis) in your biggest tilapia pond	
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] number] Enter 999 if don't know	
bp_survival_i (required)	Unit for survival rate	1 Number of fingerlings that survived
	Question relevant when: \${bp_survival} > 0 and \${bp_survival} != 999	2 Percentage of fingerlings that survived
bp_harvest (required)	How many tonnes of (Heterotis) did you harvest in your most recent full production season/cycle	
.=(-4/	from this pond?	
	1 tonne = 1,000kg	
	Question relevant when: selected(\${A01}, '1')	
Consented > Active > Fish far	m characteristics and species > POND CULTURE > Biggest tilapia pond > [C12a_name] (4)	(Repeated group)
Consented > Active > Fish	farm characteristics and species > POND CULTURE > Biggest tilapia pond > [C12a_name] (4) > production	on big pond
Group relevant when: if(ii	ndex() <=3, selected(\${C12a} , \${C12a_id}), selected(\${C12a} , '777'))	
bp_stocking (required)	Stocking rate for ([C12a_name]) in your biggest tilapia pond during last full production cycle	
	(number of fingerlings)	
	Enter 999 to proceed, if don't know	
bp_survival (required)	Survival rate for ([C12a_name]) in your biggest tilapia pond	
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total number] number] Enter 999 if don't know	
bp_survival_i (required)	Unit for survival rate	1 Number of fingerlings that survived
	Question relevant when: \${bp_survival} > 0 and \${bp_survival} != 999	2 Percentage of fingerlings that survived
	How many tonnes of ([C12a_name]) did you harvest in your most recent full production	3 3 3 3 4 4
bp_harvest (required)		
bp_harvest (required)		
bp_harvest (required)	season/cycle from this pond? 1 tonne = 1,000kg	

Field	Question	Answer		
C12_ia (required)	What was the starting month for the most recent full production season/cycle for this pond		1	January
	if multiple, select all that applies		2	February
			3	March
				April
				·
				May
				June
			7	July
			8	August
			9	September
			10	October
			11	November
			12	December
C12_iai (required)	What was the starting year for the most recent full production season/cycle for this pond?		1 2	2014
			2 2	2015
			3 2	2016
			4 2	
			5 2	
			6 2	
040 11: () 1			0 2	.019
C12_ibi <i>(required)</i>	How many months was the most recent full production cycle from stocking to last harvest? If 6 months and 2 weeks, write 6.5: if 7 months and 1 week, write 7.25 etc.			
	Question relevant when: selected(\${A01}, '1')			
Consented > Active > Fish farm character	eteristics and species > POND CULTURE > Smallest tilapia pond			
Group relevant when: \${C8} > 1				
C13a (required)	What species do you grow in your smallest tilapia pond?		1	Tilapia
(.04200)	If more than 1 specie in same pond, select all that applies			Cat fish
				Heterotis
040 : / / /			111	Other (specify)
C13ai <i>(required)</i>	Please specify the specie Question relevant when: selected(\${C13a}, '777')			
Consented > Active > Fish farm char	acteristics and species > POND CULTURE > Smallest tilapia pond > Tilapia (1)	(Re	oeat	ed group)
	aracteristics and species > POND CULTURE > Smallest tilapia pond > Tilapia (1) > Production small			
	aracteristics and species > FOND COLTONE > Smallest mapla point > mapia (1) > Froduction small <=3, selected(\${C13a}, \${C13a_id}), selected(\${C13a}, '777'))	ропс		
sp_stocking (required)	Stocking rate for (Tilapia) in your smallest tilapia pond during last full production season/cycle			
sp_stocking (required)	(number of fingerlings)?			
	Enter 999 to proceed, if don't know			
sp_survival (required)	Survival rate for (Tilapia) in your smallest tilapia pond			
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total			
and a supplied in the supplied of the supplied	number] br/>Enter 999 if don't know			
sp_survival_i <i>(required)</i>	Unit for survival rate		-	lumber of fingerlings that survived
	Question relevant when: \${sp_survival} > 0 and \${sp_survival} > 999		2 F	Percentage of fingerlings that survived
sp_harvest (required)	How many tonnes of (Tilapia) did you harvest in your most recent full production season/cycle from			
	this pond?			
	1 tonne = 1,000 kg Question relevant when: selected(\${A01}, '1')			
Consented > Active > Fish form char	acteristics and species > POND CULTURE > Smallest tilapia pond > Cat fish (2)	/Po	noat	od group)
				ed group)
	aracteristics and species > POND CULTURE > Smallest tilapia pond > Cat fish (2) > Production sma <=3, selected(\${C13a}, \${C13a_id}), selected(\${C13a}, '777'))	прог	IU	
sp_stocking <i>(required)</i>	Stocking rate for (Cat fish) in your smallest tilapia pond during last full production season/cycle			
	(number of fingerlings)? Enter 999 to proceed, if don't know			
sp_survival (required)	Survival rate for (Cat fish) in your smallest tilapia pond			
,= , , ,	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total			
	number] Enter 999 if don't know			
sp_survival_i <i>(required)</i>	Unit for survival rate		_	lumber of fingerlings that survived
	Question relevant when: \${sp_survival} > 0 and \${sp_survival} > 999		2 F	Percentage of fingerlings that survived
sp_harvest (required)	How many tonnes of (Cat fish) did you harvest in your most recent full production season/cycle			
	from this pond?			
	1 tonne = 1,000 kg Question relevant when: selected (\$\(\)(\(\)(1) \] \[\)(1)			
Consected a Astronomic Field	Question relevant when: selected(\${A01}, '1')	/ -		
	acteristics and species > POND CULTURE > Smallest tilapia pond > Heterotis (3)			ed group)
	aracteristics and species > POND CULTURE > Smallest tilapia pond > Heterotis (3) > Production sm	all po	nd	
	<=3, selected(\${C13a}, \${C13a_id}), selected(\${C13a}, '777'))			
sp_stocking (required)	Stocking rate for (Heterotis) in your smallest tilapia pond during last full production season/cycle			
	(number of fingerlings)? Enter 999 to proceed, if don't know			
	and the proceed, it don't know			

	aqaasanaro_noassnoia_sarvoy_labsi_primassis (2).ne			
Field	Question	Answer		
sp_survival <i>(required)</i>	Survival rate for (Heterotis) in your smallest tilapia pond			
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total			
and the state of t	number] Italia for a variable state.			
sp_survival_i (required)	Unit for survival rate Question relevant when: \$\{sp_survival\} > 0 and \$\{sp_survival\} > 999		-	Number of fingerlings that survived
			2 F	Percentage of fingerlings that survived
sp_harvest (required)	How many tonnes of (Heterotis) did you harvest in your most recent full production season/cycle			
	from this pond? 1 tonne = 1,000 kg			
	Question relevant when: selected(\${A01}, '1')			
Consented > Active > Fish farm cha	racteristics and species > POND CULTURE > Smallest tilapia pond > [C13a_name] (4)	(Re	neat	ed group)
	haracteristics and species > POND CULTURE > Smallest tilapia pond > [C13a_name] (4) > Production	-		
	<=3, selected(\${C13a} , \${C13a_id}), selected(\${C13a} , '777'))			
sp_stocking (required)	Stocking rate for ([C13a_name]) in your smallest tilapia pond during last full production			
\$P_2333 3 ()	season/cycle (number of fingerlings)?			
	Enter 999 to proceed, if don't know			
sp_survival (required)	Survival rate for ([C13a_name]) in your smallest tilapia pond			
	[of the total number of fingerlings stocked, how many survived upon harvest - in percentage or total			
sp_survival_i <i>(required)</i>	numberj Finter 999 if don't know Unit for survival rate		1 N	Number of fingerlings that survived
SP_SGITTGG_I (Tequireu)	Question relevant when: \${sp_survival} > 0 and \${sp_survival} > 999			Percentage of fingerlings that survived
on handal (no miles d)			4 6	Crocinage of imgenings that Strivet
sp_harvest (required)	How many tonnes of ([C13a_name]) did you harvest in your most recent full production			
	season/cycle from this pond? 1 tonne = 1,000 kg			
	Question relevant when: selected(\${A01}, '1')			
Consented > Active > Fish farm cha	racteristics and species > POND CULTURE > Smallest tilapia pond > Total production and harvest			
C13_ia (required)	What was the starting month for the most recent full production season/cycle for this pond?		1	January
	if multiple, select all that applies			February
				March
		\Box		April
				May
				June
		\vdash		July
		\vdash		•
		\vdash		August
		\vdash		September
				October
		\vdash		November
				December
C13_iai <i>(required)</i>	What was the starting year for the most recent full production season/cycle for this pond?		1 2	
			-	2015
			-	2016
		\vdash	4 2	
			5 2	2018
			6 2	2019
C13_ibi <i>(required)</i>	How many months was the most recent full production cycle form stocking to last harvest?			
	If 6 months and 2 weeks, write 6.5; if 7 months and 1 week, write 7.25 etc. Question relevant when: selected(\${A01}, '1')			
C15 (required)	Is production/harvest increasing or decreasing over the last 5 years?		1 :	ncreasing
013 (required)	Sproduction/narvest increasing or decreasing over the last 5 years? Question relevant when: selected(\${A01}, '1')	\vdash	-	
	ασοποι Γοιοναίτ πίτοι. 30100100 (Φ[ΛΟΤ], Τ			lecreasing
			-	ame
0451 / 11				Not applicable (I am a new farmer)
C15i <i>(required)</i>	What do you think is the reason production/harvest is ([C15_name])? if multiple, select all that applies		1	high and increasing fish price
	Question relevant when: selected(\${C15}, '1') or selected(\${C15}, '2')		2	high and increasing demand from market
	(*(>, -)(*(>))	Ш	3	higher yield/productivity
			4	I am becoming an expert and I have
				improved technical knowledge now
			5	diseases and fish/fingerling mortality
		Ш	6	higher inputs prices
		Ш	7	unavailable inputs
		Ш	8	lower fish prices and lower market demand
		Ш	9	theft issues
		Ш	10	Don't know/Can't tell
			777	Other (specify)
C15ii (required)	Please specify reason			
	Question relevant when: selected(\${C15i}, '777')			

	Question	Answer
C14b <i>(required)</i>	How many months on average from the last harvest to the next stocking in the same pond? If 6 months and 2 weeks, write 6.5; if 7 months and 1 week, write 7.25 etc. Question relevant when: selected(\${A01}, '11)	
C14a (required)	How many production cycles do you have in a year? Question relevant when: selected(\${A01}, '1')	
C24 (required)	Do you have plans to increase or expand production under pond culture in the next 3 years?	1 Increase
OZ4 (required)	be you have plane to increase of expand production affect point suitaire in the floor o yours.	2 Decrease
		3 Keep the same
		4 Don't know
004: (M/L	
C24i <i>(required)</i>	Why if multiple, select all that applies	1 High market demand
	Question relevant when: selected(\${C24}, '1') or selected(\${C24}, '2')	2 Low market demand
		3 High fish prices
		4 Low fish prices
		5 Very profitable
		6 Not profitable
		7 Low cost of production/inputs
		8 High cost of production/inputs
		9 Disease and high fish/fingerling mortali
		10 I want to expand and export
		11 I want to expand to processing
		777 Other (specify)
C24ii (required)	Please specify why_	
	Question relevant when: selected(\${C24i}, '777')	
C16 (required)	Do you have a hatchery or do you produce fingerlings?	1 Yes (operational)
		2 No
Group relevant when: selected(What fish species of fingerlings do you produce?	1 Tilapia
C18 (required)		·
C16 (required)	Question relevant when: selected(\${C16}, '1')	2 Catfish
C16 (requireu)	Question relevant when: selected(\${C16} , '1')	
C 16 (requireu)	Question relevant when: selected(\${C16} , '1')	2 Catfish
C18i (required)	Specify fingerling specie	2 Catfish 3 Heterotis
C18i <i>(required)</i>	Specify fingerling specie Question relevant when: selected(\${C18}, '777')	2 Catfish 3 Heterotis 777 Other (specify)
C18i <i>(required)</i> Consented > Active > Fish farm	Specify fingerling specie Question relevant when: selected(\${C18}, '777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1)	2 Catfish 3 Heterotis
C18i <i>(required)</i> Consented > Active > Fish farm Consented > Active > Fish far	Specify fingerling specie Question relevant when: selected(\${C18}, '777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production	2 Catfish 3 Heterotis 777 Other (specify)
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Group relevant when: if(indexical properties)	Specify fingerling specie Question relevant when: selected(\${C18}, '777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '777'))	2 Catfish 3 Heterotis 777 Other (specify)
C18i <i>(required)</i> Consented > Active > Fish farm Consented > Active > Fish far	Specify fingerling specie Question relevant when: selected(\${C18}, '777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group)
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Group relevant when: if(indexical properties)	Specify fingerling specie Question relevant when: selected(\${C18}, '777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '777'))	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman
C18i (required) Consented > Active > Fish farm Consented > Active > Fish far Group relevant when: if(indecomposition) C19 (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production fex() <= 3.selected(\${C18}, index()).selected(\${C18}, '777')) What is the source of broodstock for (Tilapia) fingerlings production?	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group)
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Group relevant when: if(indexical properties)	Specify fingerling specie Question relevant when: selected(\${C18}, '777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '777'))	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman
C18i (required) Consented > Active > Fish farm Consented > Active > Fish far Group relevant when: if(indecomposition) C19 (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production lex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777')) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman
C18i (required) Consented > Active > Fish farm Consented > Active > Fish far Group relevant when: if(indeconstruction) C19 (required) C19i (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777')) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777')	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman
C18i (required) Consented > Active > Fish farm Consented > Active > Fish far Group relevant when: if(indecomposition) C19 (required) C19i (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777) characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777)) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777) What is the size of (Tilapia) fingerlings produced? (grams) How many days does it take for a 2 gram (Tilapia) fingerling to grow to 5 grams in your hatchery (growth rate performance)?	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Croup relevant when: if(indeconstruction) C19 (required) C19i (required) C20 (required) C26 (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777) characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777)) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777) What is the size of (Tilapia) fingerlings produced? (grams) How many days does it take for a 2 gram (Tilapia) fingerling to grow to 5 grams in your hatchery (growth rate performance)? Enter 999 if don't know	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman
C18i (required) Consented > Active > Fish farm Consented > Active > Fish far Group relevant when: if(indeconstruction) C19 (required) C19i (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777) characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777)) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777) What is the size of (Tilapia) fingerlings produced? (grams) How many days does it take for a 2 gram (Tilapia) fingerling to grow to 5 grams in your hatchery (growth rate performance)?	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Croup relevant when: if(indeconstruction) C19 (required) C19i (required) C20 (required) C26 (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777) characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777)) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777) What is the size of (Tilapia) fingerlings produced? (grams) How many days does it take for a 2 gram (Tilapia) fingerling to grow to 5 grams in your hatchery (growth rate performance)? Enter 999 if don't know What was the total harvest/production of (Tilapia) fingerlings for the whole of last year (2018)?	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Consented > Active > Fish farm Group relevant when: if(index C19 (required) C19i (required) C20 (required) C26 (required) C21a (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777) characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777)) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777) What is the size of (Tilapia) fingerlings produced? (grams) How many days does it take for a 2 gram (Tilapia) fingerling to grow to 5 grams in your hatchery (growth rate performance)? Enter 999 if don't know What was the total harvest/production of (Tilapia) fingerlings for the whole of last year (2018)? (number of fingerlings) What is the survival rate from egg to fingerlings	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Consented > Active > Fish farm Croup relevant when: if(indexidate) C19 (required) C20 (required) C20 (required) C21a (required) C21a (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777') characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777')) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '777') What is the size of (Tilapia) fingerlings produced? (grams) How many days does it take for a 2 gram (Tilapia) fingerling to grow to 5 grams in your hatchery (growth rate performance)? Enter 999 if don't know What was the total harvest/production of (Tilapia) fingerlings for the whole of last year (2018)? (number of fingerlings) What is the survival rate from egg to fingerlings Enter 999 if don't know	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman 777 Other (specify)
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Consented > Active > Fish farm Croup relevant when: if(indexidate) C19 (required) C20 (required) C20 (required) C21a (required) C21a (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777) characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777)) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777) What is the size of (Tilapia) fingerlings produced? (grams) How many days does it take for a 2 gram (Tilapia) fingerling to grow to 5 grams in your hatchery (growth rate performance)? Enter 999 if don't know What was the total harvest/production of (Tilapia) fingerlings for the whole of last year (2018)? (number of fingerlings) What is the survival rate from egg to fingerlings Enter 999 if don't know Unit for survival rate	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman 777 Other (specify) 777 Other (specify) 1 Number of fingerlings that survived 2 Percentage of fingerlings that survived
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Croup relevant when: if(indexidate) C19i (required) C20 (required) C26 (required) C21a (required) C27i (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777) characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777)) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777) What is the size of (Tilapia) fingerlings produced? (grams) How many days does it take for a 2 gram (Tilapia) fingerling to grow to 5 grams in your hatchery (growth rate performance)? Enter 999 if don't know What was the total harvest/production of (Tilapia) fingerlings for the whole of last year (2018)? (number of fingerlings) What is the survival rate from egg to fingerlings Enter 999 if don't know Unit for survival rate Question relevant when: \${C27} > 0 and \${C27} != 999	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman 777 Other (specify) 1 Number of fingerlings that survived 2 Percentage of fingerlings that survived 1 increasing
C18i (required) Consented > Active > Fish farm Consented > Active > Fish farm Croup relevant when: if(indexidate) C19i (required) C20 (required) C26 (required) C21a (required) C27i (required)	Specify fingerling specie Question relevant when: selected(\${C18}, '7777) characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) m characteristics and species > FINGERLINGS PRODUCTION > Tilapia (1) > fingerling-production ex() <= 3,selected(\${C18}, index()),selected(\${C18}, '7777)) What is the source of broodstock for (Tilapia) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777) What is the size of (Tilapia) fingerlings produced? (grams) How many days does it take for a 2 gram (Tilapia) fingerling to grow to 5 grams in your hatchery (growth rate performance)? Enter 999 if don't know What was the total harvest/production of (Tilapia) fingerlings for the whole of last year (2018)? (number of fingerlings) What is the survival rate from egg to fingerlings Enter 999 if don't know Unit for survival rate Question relevant when: \${C27} > 0 and \${C27} != 999	2 Catfish 3 Heterotis 777 Other (specify) (Repeated group) 1 ARDEC 2 Ashaiman 777 Other (specify) 777 Other (specify) 1 Number of fingerlings that survived 2 Percentage of fingerlings that survived

ield	Question	۸۰	swer	
		An		
C22i <i>(required)</i>	What do you think is the reason production/harvest is ([C22_name])? if multiple, select all that applies	H	1	0 1
	Question relevant when: selected(\${C22}, '1') or selected(\${C22}, '2')	H	2	high and increasing demand from market
		-	3	higher yield/productivity
			4	I am becoming an expert and I have
				improved technical knowledge now
			5	diseases and fish/fingerling mortality
			6	higher inputs prices
			7	unavailable inputs
			8	lower fish prices and lower market demai
			9	theft issues
			10	Don't know/Can't tell
			777	Other (specify)
C22ii <i>(required)</i>	Please specify reason			
CEEN (required)	Question relevant when: selected(\${C22i}, '777')			
Consented > Active > Eich farm ch		(Do	noate	ad graup)
	paracteristics and species > FINGERLINGS PRODUCTION > Catfish (2)	(INE	реац	ed group)
	characteristics and species > FINGERLINGS PRODUCTION > Catfish (2) > fingerling-production			
	') <= 3,selected(\${C18}, index()),selected(\${C18}, '777'))			
C19 (required)	What is the source of broodstock for (Catfish) fingerlings production?	_		ARDEC
			2	Ashaiman
			777	Other (specify)
C19i (required)	Please specify the source of your broodstock			
	Question relevant when: selected(\${C19}, '777')			
C20 (required)	What is the size of (Catfish) fingerlings produced? (grams)			
C26 (required)	How many days does it take for a 2 gram (Catfish) fingerling to grow to 5 grams in your hatchery			
	(growth rate performance)?			
	Enter 999 if don't know			
C21a (required)	What was the total harvest/production of (Catfish) fingerlings for the whole of last year (2018)?			
	(number of fingerlings)			
C27 (required)	What is the survival rate from egg to fingerlings			
COT: (required)	Enter 999 if don't know	-	4 6	house and fine and in our that a construct
C27i <i>(required)</i>	Unit for survival rate	H		lumber of fingerlings that survived
	Question relevant when: \${C27} > 0 and \${C27} != 999	-	2 P	ercentage of fingerlings that survived
C22 (required)	Is your production of (Catfish) fingerlings increasing or decreasing over the last 5 years?		1 ir	ncreasing
			2 d	ecreasing
			3 s	ame
			4 N	lot applicable (I am a new farmer)
C22i <i>(required)</i>	What do you think is the reason production/harvest is ([C22_name])?		1	high and increasing fish price
	if multiple, select all that applies		2	high and increasing demand from marke
	Question relevant when: selected(\${C22} , '1') or selected(\${C22} , '2')			higher yield/productivity
			3	
			4	I am becoming an expert and I have
			4	I am becoming an expert and I have improved technical knowledge now
			5	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality
			4 5 6	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices
			4 5 6 7	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs
			4 5 6 7 8	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market demandant of the control of the co
			4 5 6 7 8 9	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market demand theft issues
			4 5 6 7 8 9	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market demand theft issues Don't know/Can't tell
			4 5 6 7 8 9	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market demand theft issues
C22ii (required)	Please specify reason		4 5 6 7 8 9	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market demand theft issues Don't know/Can't tell
C22ii <i>(required)</i>			4 5 6 7 8 9	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market demand theft issues Don't know/Can't tell
	Please specify reason	(Red	4 5 6 7 8 9 10 777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dema theft issues Don't know/Can't tell
Consented > Active > Fish farm ch	Please specify reason Question relevant when: selected(\${C22l}, '777')	(Re	4 5 6 7 8 9 10 777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dematheft issues Don't know/Can't tell Other (specify)
Consented > Active > Fish farm ch	Please specify reason Question relevant when: selected(\${C22i}, '777') aracteristics and species > FINGERLINGS PRODUCTION > Heterotis (3)	(Re	4 5 6 7 8 9 10 777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dematheft issues Don't know/Can't tell Other (specify)
Consented > Active > Fish farm ch	Please specify reason Question relevant when: selected(\${C22i}, '7777') paracteristics and species > FINGERLINGS PRODUCTION > Heterotis (3) characteristics and species > FINGERLINGS PRODUCTION > Heterotis (3) > fingerling-production	(Re	4 5 6 7 8 9 10 7777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dematheft issues Don't know/Can't tell Other (specify)
Consented > Active > Fish farm ch Consented > Active > Fish farm Group relevant when: if(index(Please specify reason Question relevant when: selected(\${C22i}, '777") Please species > FINGERLINGS PRODUCTION > Heterotis (3) Characteristics and species > FINGERLINGS PRODUCTION > Heterotis (3) > fingerling-production Compared to the selected of t	(Re	4 5 6 7 8 9 10 7777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dematheft issues Don't know/Can't tell Other (specify) ad group)
Consented > Active > Fish farm ch Consented > Active > Fish farm Group relevant when: if(index(Please specify reason Question relevant when: selected(\${C22i}, '777") Please species > FINGERLINGS PRODUCTION > Heterotis (3) Characteristics and species > FINGERLINGS PRODUCTION > Heterotis (3) > fingerling-production Compared to the selected of t	(Re	4 5 6 7 8 9 10 777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dematheft issues Don't know/Can't tell Other (specify)
Consented > Active > Fish farm ch Consented > Active > Fish farm Group relevant when: if(index(C19 (required)	Please specify reason Question relevant when: selected(\${C22i}, '777') Paracteristics and species > FINGERLINGS PRODUCTION > Heterotis (3) Characteristics and species > FINGERLINGS PRODUCTION > Heterotis (3) > fingerling-production (1) <= 3, selected(\${C18}, index()), selected(\${C18}, '777')) What is the source of broodstock for (Heterotis) fingerlings production?	(Re	4 5 6 7 8 9 10 777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dematheft issues Don't know/Can't tell Other (specify) ed group) ARDEC
Consented > Active > Fish farm ch Consented > Active > Fish farm Group relevant when: if(index(Please specify reason Question relevant when: selected(\${C22i}, '7777') Please species > FINGERLINGS PRODUCTION > Heterotis (3) Characteristics and species > FINGERLINGS PRODUCTION > Heterotis (3) > fingerling-production Compared (\${C18}, index()), selected(\${C18}, '7777')) What is the source of broodstock for (Heterotis) fingerlings production? Please specify the source of your broodstock	(Re	4 5 6 7 8 9 10 777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dematheft issues Don't know/Can't tell Other (specify) and group) ARDEC Ashaiman
Consented > Active > Fish farm ch Consented > Active > Fish farm Group relevant when: if(index(C19 (required)	Please specify reason Question relevant when: selected(\${C22i}, '7777') Please species > FINGERLINGS PRODUCTION > Heterotis (3) > fingerling-production (2) <= 3, selected(\${C18}, index()), selected(\${C18}, '7777')) What is the source of broodstock for (Heterotis) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777')	(Re	4 5 6 7 8 9 10 777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dematheft issues Don't know/Can't tell Other (specify) and group) ARDEC Ashaiman
Consented > Active > Fish farm ch Consented > Active > Fish farm Group relevant when: if(index(C19 (required)	Please specify reason Question relevant when: selected(\${C22i}, '7777') Please species > FINGERLINGS PRODUCTION > Heterotis (3) Characteristics and species > FINGERLINGS PRODUCTION > Heterotis (3) > fingerling-production Compared (\${C18}, index()), selected(\${C18}, '7777')) What is the source of broodstock for (Heterotis) fingerlings production? Please specify the source of your broodstock	(Re	4 5 6 7 8 9 10 777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market dema theft issues Don't know/Can't tell Other (specify) ad group) ARDEC Ashaiman
Consented > Active > Fish farm ch Consented > Active > Fish farm ch Group relevant when: If(index(C19 (required) C19i (required)	Please specify reason Question relevant when: selected(\${C22i}, '7777') Please species > FINGERLINGS PRODUCTION > Heterotis (3) > fingerling-production (2) <= 3, selected(\${C18}, index()), selected(\${C18}, '7777')) What is the source of broodstock for (Heterotis) fingerlings production? Please specify the source of your broodstock Question relevant when: selected(\${C19}, '7777')		4 5 6 7 8 9 10 777	I am becoming an expert and I have improved technical knowledge now diseases and fish/fingerling mortality higher inputs prices unavailable inputs lower fish prices and lower market demarket itssues Don't know/Can't tell Other (specify)

Field	Question	Answer		
C21a (required)	What was the total harvest/production of (Heterotis) fingerlings for the whole of last year (2018)?			
	(number of fingerlings)			
C27 (required)	What is the survival rate from egg to fingerlings Enter 999 if don't know			
C27i (required)	Unit for survival rate		1 N	lumber of fingerlings that survived
	Question relevant when: \${C27} > 0 and \${C27} != 999	2 Percentage of fingerlings that survived		
C22 (required)	Is your production of (Heterotis) fingerlings increasing or decreasing over the last 5 years?		1 ir	ncreasing
			2 d	ecreasing
			3 s	ame
			4 N	lot applicable (I am a new farmer)
C22i (required)	What do you think is the reason production/harvest is ([C22_name])?		1	high and increasing fish price
	if multiple, select all that applies Question relevant when: selected(\${C22}, '1') or selected(\${C22}, '2')	Ш	2	high and increasing demand from market
	Quodion rolotan mon. colotad (\$\left(\text{DEL}\frac{1}{2}\), \gamma\right(\text{of colotad}\left(\frac{1}{2}\) \text{E}\)		3	higher yield/productivity
			4	I am becoming an expert and I have
				improved technical knowledge now
				diseases and fish/fingerling mortality
				higher inputs prices
		\vdash		unavailable inputs
			8	lower fish prices and lower market demand theft issues
		\vdash		Don't know/Can't tell
				Other (specify)
C22ii <i>(required)</i>	Please specify reason		, , , ,	
SELII (required)	Question relevant when: selected(\${C22l}, '777')			
Consented > Active > Fish farm character	teristics and species > FINGERLINGS PRODUCTION > [C18_name] (4)	(Re	peate	ed group)
	acteristics and species > FINGERLINGS PRODUCTION > [C18_name] (4) > fingerling-production			3 17
Group relevant when: if(index() <=	3,selected(\${C18}, index()),selected(\${C18}, '777'))			
C19 (required)	What is the source of broodstock for ([C18_name]) fingerlings production?		1	ARDEC
			2	Ashaiman
			777	Other (specify)
C19i (required)	Please specify the source of your broodstock			
	Question relevant when: selected(\${C19}, '777')			
C20 (required)	What is the size of ([C18_name]) fingerlings produced? (grams)			
C26 (required)	How many days does it take for a 2 gram ([C18_name]) fingerling to grow to 5 grams in your			
	hatchery (growth rate performance)? Enter 999 if don't know			
C21a (required)	What was the total harvest/production of ([C18_name]) fingerlings for the whole of last year			
	(2018)?			
	(number of fingerlings)			
C27 (required)	What is the survival rate from egg to fingerlings Enter 999 if don't know			
C27i (required)	Unit for survival rate		1 N	lumber of fingerlings that survived
	Question relevant when: \${C27} > 0 and \${C27} != 999		2 P	Percentage of fingerlings that survived
C22 (required)	Is your production of ([C18_name]) fingerlings increasing or decreasing over the last 5 years?		1 ir	ncreasing
				ecreasing
			3 s	
		Ш	4 N	lot applicable (I am a new farmer)
C22i (required)	What do you think is the reason production/harvest is ([C22_name])?		1	high and increasing fish price
	if multiple, select all that applies Question relevant when: selected(\${C22}, '1') or selected(\${C22}, '2')		2	high and increasing demand from market
			3	higher yield/productivity
			4	I am becoming an expert and I have
		\vdash	F	improved technical knowledge now
				diseases and fish/fingerling mortality
		\vdash	6 7	higher inputs prices unavailable inputs
			8	lower fish prices and lower market demand
			9	theft issues
				Don't know/Can't tell
				Other (specify)
C22ii (required)	Please specify reason			,, ,,=
f A A	Question relevant when: selected(\${C22i}, '777')			
C21b (required)	How many months on average from the harvest to the next spawning in the same hatchery?			
	If 6 months and 2 weeks, write 6.5; if 7 months and 1 week, write 7.25 etc.			

720/2010	aquadatato_floadoffota_datVoy_labof_pfifitable (2).fit			
Field	Question	Answer		
C21c (required)	How many spawning cycles do you have in a year?			
C25 (required)	Do you have plans to increase or expand production in the next 3 years?	1	Increase	
		2	Decrease	
			Keep the same	
			Don't know	
C25i <i>(required)</i>	Why	_	1 High market	domand
Ozor (required)	If multiple, select all that apply		-	
	Question relevant when: selected(\${C25}, '1') or selected(\${C25}, '2')			
			3 High fish pric	
			4 Low fish pric	
			5 Very profitab	
			6 Not profitable	
				production/inputs
			-	production/inputs
			9 Disease and	high fish/fingerling mortality
			10 I want to exp	and and export
			11 I want to exp	and to processing
		7	777 Other (speci	fy)
C25ii <i>(required)</i>	Please specify why			
	Question relevant when: selected(\${C25i}, '777')			
Consented > Active > History of fish farm	ing			
D1 (required)	When (what year) did you start tilapia farming?			
	Response constrained to: .<= date('2019-12-31')			
D2 (required)	Where or from whom did you learn about fish farming for the first time?		1 Extension ag	gent
			2 Training/adv	ice from project
				ice from government
			-	ice from private company
			5 Input supplie	
				rs/Friends/Neighbors/Family
			members	5/1 Honds/Holgribols/Falling
				ciation/Organisation
				or other printed materials
			9 Internet	, ,
		- /	77 Other (speci	Ty)
D2i (required)	Specify from whom you learn about fish farming for the first time			
	Question relevant when: selected(\${D2} , '777')		1	
D3 (required)	Did you seek any advice or technical support since you started?		Yes	
		(No	
D4 (required)	Where or from whom did you seek advice or technical support on fish farming?		1 Extension ag	gent
	Question relevant when: selected(\${D3} , '1')		2 Training/adv	ice from project
			3 Training/adv	ice from government
			4 Training/adv	ice from private company
			5 Input supplie	r
			6 Other farmer	rs/Friends/Neighbors/Family
			members	
			7 Group/Assoc	ciation/Organisation
			8 News paper	or other printed materials
			9 Internet	
		7	777 Other (speci	fy)
D4i <i>(required)</i>	Please specify from whom did you seek advice or technical support on fish farming?			
	Question relevant when: selected(\${D4}, '777')			
D5 (required)	Where did you get your first fingerlings/brood-stock when you started?		1 ARDEC	
			2 PAC	
		\Box	3 Ashaiman Al	DC
			4 Private hatch	
			5 Friend/neigh	
			6 Own farm	
			7 From the will	d
DEI (v. v. t. n.		- '	777 Other (speci	iy)
D5i (required)	Please specify from where you get your fingerlings/brood-stock when you started			
	Question relevant when: selected(\${D5} , '777')			

Field	Question	Ansv	Answer			
	ring > Changes in inputs/input source/farming practices					
Group relevant when: selected(\${A01						
	rming > Changes in inputs/input source/farming practices > Fish species					
D6ai <i>(required)</i>	Did you change anything (e.g. source or practice) with regards to fish species?		-	Yes		
			1 0 1 86			
D6bi <i>(required)</i>	What was the change?	3	10 1	NA .		
Dobi (required)	Question relevant when: selected(\${D6ai}, '1')					
D6ci (required)	Why did you change? What made you change?		1	Availability		
	Question relevant when: selected(\${D6ai} , '1')		2	Based on training/advice from		
				experts/friends		
			3	Price		
			4	Lower mortality		
			5	Greater stocking density		
			6	Greater disease resistance		
		_		High mortality		
		_	8	unavailability of money/capital		
DCa: ather (required)	Diagon anglif unhat mada yay ahanga	/	11	Other (specify)		
D6ci_other (required)	Please specify what made you change Question relevant when: selected(\${D6ci}, '777')					
D6di <i>(required)</i>	Based on your experience and changes you made, what can you recommend as best practice?					
	Enter 999 if can't answer/don't know					
	Question relevant when: selected(\${D6ai}, '1')					
	Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999'					
	rming > Changes in inputs/input source/farming practices > Fingerlings					
D6aii <i>(required)</i>	Did you change anything (e.g. source or practice) with regards to fingerlings?		Yes			
			No NA			
D6bii <i>(required)</i>	What was the change?	3	10 1	NA.		
Bobii (required)	Question relevant when: selected(\${D6aii}, '1')					
D6cii <i>(required)</i>	Why did you change? What made you change?		1	Availability		
	Question relevant when: selected(\${D6aii}, '1')		2	Based on training/advice from		
				experts/friends		
			3	Price		
			4	Lower mortality		
			5	Greater stocking density		
			6	Greater disease resistance		
				High mortality		
				unavailability of money/capital		
DCail ather (required)	Diagon and if what made you should	/	11	Other (specify)		
D6cii_other (required)	Please specify what made you change Question relevant when: selected(\${D6cii}, '777')					
D6dii <i>(required)</i>	Based on your experience and changes you made, what can you recommend as best practice?					
	Enter 999 if can't answer/don't know					
	Question relevant when: selected(\${D6aii}, '1')					
Companied a Astissa III	Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999'					
D6aiii (required)	rming > Changes in inputs/input source/farming practices > Feed		4 \	V		
Doaiii (<i>required)</i>	Did you change anything (e.g. source or practice) with regards to feed?		1 0	Yes		
			1 86			
D6biii <i>(required)</i>	What was the change?					
(,	Question relevant when: selected(\${D6aiii} , '1')					
D6ciii (required)	Why did you change? What made you change?		1	Availability		
	Question relevant when: selected(\${D6aiii}, '1')		2	Based on training/advice from		
				experts/friends		
			3	Price		
		Ш	4	Lower mortality		
		_	5	Greater stocking density		
		_	6	Greater disease resistance		
				High mortality		
			8	unavailability of money/capital		
		1	11	Other (specify)		

	Question	Ans	swe	
D6ciii_other (required)	Please specify what made you change			
	Question relevant when: selected(\${D6ciii} , '777')			
D6diii <i>(required)</i>	Based on your experience and changes you made, what can you recommend as best practice? Enter 999 if can't answer/don't know Question relevant when: selected(\${D6aiii}, '1') Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999'			
Consented > Active > History of fis	th farming > Changes in inputs/input source/farming practices > Water management			
D6aiv <i>(required)</i>	Did you change anything (e.g. source or practice) with regards to water management?		1	Yes
Sour (roganou)	Die jou shange anjuming (o.g. seense of practice) man ogerae to nater management.			No
DOL: (' '	W 4 4 4 9		98	NA .
D6biv <i>(required)</i>	What was the change?			
D0: (' ' '	Question relevant when: selected(\${D6aiv}, '1')			
D6civ (required)	Why did you change? What made you change?			Availability
	Question relevant when: selected(\${D6aiv}, '1')		2	Based on training/advice from
				experts/friends
			3	Price
			4	Lower mortality
			5	Greater stocking density
			6	Greater disease resistance
			7	High mortality
			8	unavailability of money/capital
			777	Other (specify)
D6civ_other (required)	Pleases specify what made you change			
	Question relevant when: selected(\${D6civ}, '777')			
Consented > Active > History of fis	Enter 999 if can't answer/don't know Question relevant when: selected(\${D6aiv}, '1') Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999' th farming > Changes in inputs/input source/farming practices > use of chemicals/drugs/antibiotics			
D6av (required)	Did you change anything (e.g. source or practice) with regards to use of		1	Yes
Doay (roquireu)	chemicals/drugs/antibiotics?			
	on an industrial against translation.			No NA
	What was the shares?		90	NA
DOI: Committee of	What was the change?			
D6bv (required)	0 " 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Question relevant when: selected(\${D6av}, '1')			
D6bv (required) D6cv (required)	Why did you change? What made you change?			Availability
			1	Based on training/advice from
	Why did you change? What made you change?		2	Based on training/advice from experts/friends
	Why did you change? What made you change?		2	Based on training/advice from experts/friends Price
	Why did you change? What made you change?		2	Based on training/advice from experts/friends Price Lower mortality
	Why did you change? What made you change?		3	Based on training/advice from experts/friends Price Lower mortality Greater stocking density
	Why did you change? What made you change?		3 4	Based on training/advice from experts/friends Price Lower mortality
	Why did you change? What made you change?		2 3 4 5	Based on training/advice from experts/friends Price Lower mortality Greater stocking density
	Why did you change? What made you change?		2 3 4 5 6	Based on training/advice from experts/friends Price Lower mortality Greater stocking density Greater disease resistance
	Why did you change? What made you change?		3 4 5 6 7 8	Based on training/advice from experts/friends Price Lower mortality Greater stocking density Greater disease resistance High mortality
	Why did you change? What made you change?		3 4 5 6 7 8	Based on training/advice from experts/friends Price Lower mortality Greater stocking density Greater disease resistance High mortality unavailability of money/capital
D6cv (required)	Why did you change? What made you change? Question relevant when: selected(\${D6av}, '1') Pleases specify what made you change		3 4 5 6 7 8	Based on training/advice from experts/friends Price Lower mortality Greater stocking density Greater disease resistance High mortality unavailability of money/capital
D6cv_other (required) D6dv (required)	Why did you change? What made you change? Question relevant when: selected(\${D6av}, '1') Pleases specify what made you change Question relevant when: selected(\${D6cv}, '777') Based on your experience and changes you made, what can you recommend as best practice? Enter 999 if can't answer/don't know Question relevant when: selected(\${D6av}, '1')		3 4 5 6 7 8	Based on training/advice from experts/friends Price Lower mortality Greater stocking density Greater disease resistance High mortality unavailability of money/capital
D6cv_other (required) D6dv (required) Consented > Active > History of fis	Why did you change? What made you change? Question relevant when: selected(\${D6av}, '1') Pleases specify what made you change Question relevant when: selected(\${D6cv}, '777') Based on your experience and changes you made, what can you recommend as best practice? Enter 999 if can't answer/don't know Question relevant when: selected(\${D6av}, '1') Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999' th farming > Changes in inputs/input source/farming practices > stocking rate		3 4 5 6 7 8 7777	Based on training/advice from experts/friends Price Lower mortality Greater stocking density Greater disease resistance High mortality unavailability of money/capital Other (specify)
D6cv_other (required) D6dv (required)	Why did you change? What made you change? Question relevant when: selected(\${D6av}, '1') Pleases specify what made you change Question relevant when: selected(\${D6cv}, '777') Based on your experience and changes you made, what can you recommend as best practice? Enter 999 if can't answer/don't know Question relevant when: selected(\${D6av}, '1') Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999'		2 3 4 5 6 7 8 7777	Based on training/advice from experts/friends Price Lower mortality Greater stocking density Greater disease resistance High mortality unavailability of money/capital Other (specify) Yes
D6cv_other (required) D6dv (required) Consented > Active > History of fis	Why did you change? What made you change? Question relevant when: selected(\${D6av}, '1') Pleases specify what made you change Question relevant when: selected(\${D6cv}, '777') Based on your experience and changes you made, what can you recommend as best practice? Enter 999 if can't answer/don't know Question relevant when: selected(\${D6av}, '1') Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999' th farming > Changes in inputs/input source/farming practices > stocking rate		2 3 4 5 6 7 8 7777	Based on training/advice from experts/friends Price Lower mortality Greater stocking density Greater disease resistance High mortality unavailability of money/capital Other (specify) Yes No
D6cv_other (required) D6dv (required) Consented > Active > History of fis	Why did you change? What made you change? Question relevant when: selected(\${D6av}, '1') Pleases specify what made you change Question relevant when: selected(\${D6cv}, '777') Based on your experience and changes you made, what can you recommend as best practice? Enter 999 if can't answer/don't know Question relevant when: selected(\${D6av}, '1') Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999' th farming > Changes in inputs/input source/farming practices > stocking rate		2 3 4 5 6 7 8 7777	Based on training/advice from experts/friends Price Lower mortality Greater stocking density Greater disease resistance High mortality unavailability of money/capital Other (specify) Yes No

	Question	Ans	swer	
D6cvi <i>(required)</i>	Why did you change? What made you change?		1	Availability
	Question relevant when: selected(\${D6avi}, '1')		2	Based on training/advice from experts/friends
			3	Price
			4	Lower mortality
			5	Greater stocking density
		\vdash	6	Greater disease resistance
		\vdash	7	High mortality
		\vdash		
		\vdash	8	unavailability of money/capital
D6cvi_other (required)	Pleases specify what made you change		111	Other (specify)
	Question relevant when: selected(\${D6cvi} , '777')			
D6dvi <i>(required)</i>	Based on your experience and changes you made, what can you recommend as best practice? Enter 999 if can't answer/don't know Question relevant when: selected(\${D6avi}, '1') Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999'			
Consented > Active > History of fish	n farming > Changes in inputs/input source/farming practices > site/location			
D6avii <i>(required)</i>	Did you change anything (e.g. source or practice) with regards to site/location?		1	Yes
· · · · · · · · · · · · · · · · · · ·	, or , or	\vdash	0	
			98	
Dehvii (roguirod)	What was the shares?	-	50	IVA
D6bvii <i>(required)</i>	What was the change?			
Denvii (nami in 1	Question relevant when: selected(\${D6avii} , '1')			A 11 - 12 12 4 .
D6cvii (required)	Why did you change? What made you change?			Availability
	Question relevant when: selected(\${D6avii} , '1')		2	Based on training/advice from
				experts/friends
		Ш	3	Price
			4	Lower mortality
			5	Greater stocking density
			6	Greater disease resistance
			7	High mortality
			8	unavailability of money/capital
			777	Other (specify)
D6cvii_other (required)	Pleases specify what made you change			
	Question relevant when: selected(\${D6cvii} , '777')			
D6dvii <i>(required)</i>	Based on your experience and changes you made, what can you recommend as best practice?			
	Enter 999 if can't answer/don't know			
	Question relevant when: selected(\${D6avii} , '1')			
	Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999'			
Consented > Active > History of fish	farming > Changes in inputs/input source/farming practices > dimensions of the cage/pond			
D6aviii (required)	Did you change anything (e.g. source or practice) with regards to dimensions of the cage/pond?		1	Yes
			0	No
			98	NA
D6bviii <i>(required)</i>	What was the change?			
. , ,	Question relevant when: selected(\${D6aviii} , '1')			
	Why did you change? What made you change?		1	Availability
	Question relevant when: selected(\${D6aviii} , '1')	\Box	2	Based on training/advice from
	(45		_	experts/friends
D6cviii (required)		Н	3	Price Price
		\vdash		
		\vdash	4	Lower mortality
			5	Greater stocking density
		\square	6	Greater disease resistance
			7	High mortality
			8	unavailability of money/capital
			777	Other (specify)
	Pleases specify what made you change Question relevant when: selected(\${D6cviii} , '777')			
D6cviii_other (required)				
D6cviii_other (required) D6dviii (required)	Based on your experience and changes you made, what can you recommend as best practice?			
	Based on your experience and changes you made, what can you recommend as best practice?			

	Question	Ans	wer	
D6aix <i>(required)</i>	Did you change anything (e.g. source or practice) with regards to packaging or transporting		Yes	
	fingerlings/broodstock?		0	
			98	
D01: (With the state of		90	IVA
D6bix <i>(required)</i>	What was the change?			
	Question relevant when: selected(\${D6aix} , '1')			
D6cix <i>(required)</i>	Why did you change? What made you change?		1	Availability
	Question relevant when: selected(\${D6aix} , '1')		2	Based on training/advice from
				experts/friends
			3	Price
			4	Lower mortality
			5	Greater stocking density
			6	Greater disease resistance
			7	High mortality
			8	unavailability of money/capital
		\vdash		
			///	Other (specify)
D6cix_other (required)	Pleases specify what made you change			
	Question relevant when: selected(\${D6cix} , '777')			
D6dix (required)	Based on your experience and changes you made, what can you recommend as best practice?			
	Enter 999 if can't answer/don't know			
	Question relevant when: selected(\${D6aix} , '1')			
	Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999'			
Consented > Active > History of fish to	farming > Changes in inputs/input source/farming practices > size of fingerlings bought			
D6ax (required)	Did you change anything (e.g. source or practice) with regards to size of fingerlings bought?		1	Yes
			0	No
			98	NA
D6bx (required)	What was the change?			
	Question relevant when: selected(\${D6ax} , '1')			
D6cx <i>(required)</i>	Why did you change? What made you change?		1	Availability
Book (required)	Question relevant when: selected(\${D6ax}, '1')	\vdash		
	Question relevant when, selected (\(\psi Doax \), \(\)		2	Based on training/advice from
				experts/friends
			3	Price
			4	Lower mortality
			5	Greater stocking density
			6	Greater disease resistance
			7	High mortality
			8	unavailability of money/capital
			777	Other (specify)
D6cx_other (required)	Pleases specify what made you change			, , ,,
Docx_other (required)	Question relevant when: selected(\${D6cx}, '777')			
Deduc (required)				
D6dx <i>(required)</i>	Based on your experience and changes you made, what can you recommend as best practice? Enter 999 if can't answer/don't know			
	Question relevant when: selected(\${D6ax}, '1')			
	Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999'			
Consented > Active > History of fish	farming > Changes in inputs/input source/farming practices > labour			
D6axi (required)	Did you change anything (e.g. source or practice) with regards to labour?		4	Voc
Dodni (requireu)	Did you origing arrything (e.g. source or practice) with regards to iduoul ?	\vdash	-	Yes
			0	
			98	NA
D6bxi (required)	What was the change?			
	Question relevant when: selected(\${D6axi}, '1')			
D6cxi (required)	Why did you change? What made you change?		1	Availability
	Question relevant when: selected(\${D6axi}, '1')		2	Based on training/advice from
				experts/friends
			3	Price
			4	Lower mortality
			5	Greater stocking density
		\vdash		
			6	Greater disease resistance
		Ш	7	High mortality
			8	unavailability of money/capital
			777	Other (specify)
D6cxi_other <i>(required)</i>	Pleases specify what made you change		777	Other (specify)

Field	Question	۸۵۰	swer	
D6dxi <i>(required)</i>	Based on your experience and changes you made, what can you recommend as best practice?	Alls	swer	
Douxi (required)	Enter 999 if can't answer/don't know Question relevant when: selected(\${D6axi}, '1') Response constrained to: (string-length(.)>=1 and string-length(.)<=100) or .='999'			
D7 (required)	How did the farm/firm come into existence?		1	Started by self/partnership
			2	Inherited
			3	Purchased
		П	4	Gift
			888	Refuse to answer
				Don't know
D7a	How did this firm/farm come about or start? (type in what the respondent is saying/sbr/>Proceed if respondent does not provide an answer			
D8 (required)	What is your primary motivation for starting this type of farm/firm?		1	Availability of raw material
	Enumerator: Do not read out options. Select based on respondent's answer	П		Others were successful and profitable in this
				fish farming
			3	There was a high market demand for this product
		Н	4	I received training or advice
		\vdash		I received government/NGO assistance
		\vdash	6	My capital could only finance this business
		Н		Don't know
		-		Other (please specify)
D8i <i>(required)</i>	Please specify your primary motivation for starting this type of farm		,,,,	Other (please specify)
	Question relevant when: selected(\${D8} , '777')			
D9 (required)	What were your reasons for locating the farm at this location?	Ш	1	Proximity to water source
	Enumerator: Do not read out options. Select based on respondent's answer	Ш	2	Proximity to owner's residence
			3	Proximity to required infrastructure (e.g.
		Ш		roads)
		Ш	4	Proximity to other fish farms
			5	Proximity to raw material supply
			6	Proximity to output markets or customers
			777	Other (please specify)
D9i <i>(required)</i>	Please specify your reason for locating the farm at its location			
D10 () (1)	Question relevant when: selected(\${D9}, '777')			
D10 (required)	What were your livelihood and income-generating activities before tilapia farming? Select all that apply Select all that apply Frefers to whoever is answering Owner or Manager]	Н		None
	Response constrained to: if(selected(., 1), count-selected(.) = 1, count-selected(.) >= 1)	Ш		Crop farming
		Ш		Other business enterprise (or self-employed)
		Ш	4	Farm wage
			5	Wage/salary from employment with government/private sector
			6	Trading
			7	Capture fishing
			8	I am a retiree
			999	Don't know
			777	Other (please specify)
D10i <i>(required)</i>	Please specify your livelihood and income-generation activity before tilapia farming Question relevant when: selected(\$(D10), '777')			
D14 (required)	Right now, what income generating activities are you engaged in?		1	None
	Select all that apply [Refers to whoever is answering Owner or Manager]	П	2	Crop farming
		П	3	Other business enterprise (or self-employed)
		Н	4	Farm wage
				-
			5	Wage/salary from employment with
			5	Wage/salary from employment with government/private sector
			6	government/private sector
			6	government/private sector Trading
			6 7 8	government/private sector Trading Capture fishing
		\vdash	6 7 8 999	government/private sector Trading Capture fishing I am a retiree Don't know
D14i <i>(required)</i>	Please specify other income generating activities you are currently engaged in	\vdash	6 7 8 999	government/private sector Trading Capture fishing I am a retiree

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Field	Question	Ans	wer	
D15 (required)	How much of your household's income is supplied by this tilapia farming enterprise?			Nearly all
	[Refers to whoever is answering Owner or Manager]			More than half
				About half
				Less than half
				Almost none
				Not applicable (am a new farmer)
D40 () 11				
D16 (required)	What other income generating activities are more successful or more profitable than fish farming		1	None
	right now based on your knowledge? Select all that apply [Refers to whoever is answering Owner or Manager]		2	Crop farming
	Select all that apply voliz [Nelets to whoever is answering Owner of wallayer]		3	Other business enterprise (or self-employed)
			4	Farm wage
			5	Wage/salary from employment with
				government/private sector
			6	Trading
			7	Capture fishing
			8	I am a retiree
			999	Don't know
			777	Other (please specify)
D16i <i>(required)</i>	Please specify income generating activities you believe are more successful or profitable than fish			
	farming			
	Question relevant when: selected(\${D16}, '777')			
D11a <i>(required)</i>	Which category of crop did you grow in 2018?		FC	Field Crop
	Question relevant when: selected(\${D14}, '2')	-		Tree Crop
				Vegetable
D11b (required)	Which type of crop did you grow in 2018?			Bambara beans
DTTD (required)			1	
	Question relevant when: selected(\${D14} , '2')		2	Cassava
				Citronella
			4	Cocoyam/Taro
			5	Cotton
			6	Cowpeas
			7	Flowers
			8	Ginger
			9	Groundnuts
			10	Jute
			11	Kenaf
			12	Maize
			13	Millet
			14	Pepper (hot)
				Pigeon peas
				Pumpkins
				Rice
		Н		Sisal
				Sorghum
		H		Soyabeans
		\vdash		Sugarcane
		\vdash		Sweet potato
		\vdash		Tabacco
		\vdash		Watermelon
		\vdash		Yam
		\vdash		
		\vdash		Potato
		Н		Avocado
		\vdash		Banana
				Cashew
		Ш		Cocoa
		Ш		Coconut
		Ш	32	Coffee
			33	Cola
			34	Lime
			35	Mango
			36	Nutmeg
			37	Oil palm
			38	Oranges
		П		Pawpaw
				· ·

				40	Pineapples
Field	Question		Ans	wer 41	Plantain
					Rubber
			-		Shear-nut
			-		Sweet berry
			-		Dawadawa
		-			Neem
		-			
		-		47	
		-			Kapok
			-		Acacia
			_		Teak
		_		51	Asian vegetable
				52	Cabbage
				53	Carrots
				54	Cucumber
				55	Garden eggs
				56	Lettuce
				57	Groundnuts, fresh
				58	Maize, fresh
			-		Melon (agusi)
		-			Okra
		-			Onion
		-	-		
		-	_		Pepper (black)
		-			Pepper (sweet)
		-			Pumpkin leaves
					Shallots
				66	Talinum leaves
				67	Tomatos
				68	Yellow melon
				69	Henna
				70	Hibiscus
				777	Other crop (specify)
D11bi <i>(required)</i>	Please specify other crop				
	Question relevant when: selected(\${D11b}, '777')				
D12 (required)	What is the total area cultivated in 2018?				
(Question relevant when: selected(\${D14} , '2')				
D12a <i>(required)</i>	What is the area unit			1	Acres
2 .zu (roquirou)	Question relevant when: \${D12} > 0	-	+		Hectares
	Question for variations, \$\psi_1 \beta_1 \cdots \cdots	-	-		
		-	-		Poles
		-			Rope
		-	-		Arm stretch
					Square meters
					Square yards
				8	Square feet
				777	Other (Specify)
D12ai <i>(required)</i>	Please specify the unit for the area cultivated Question relevant when: selected(\${D12a}, '777')				
D12b (required)	Is the land used for crop farming owned or rented?			1	Inherited land
	Question relevant when: selected(\${D14} , '2')			2	Outright purchase
				3	Given free from chief (allocated skin land or
					community land)
					Given free by relatives (allocated family land)
				5	Given free by government (allocated
					government land)
					Rented (with rental fee)
				_	Borrowed (for free use)
					Sharecropping agreement with landowner
			+		Just walked in (e.g. cleared virgin land)
			-		Other (Specify)
				111	C (OPOOITY)

Field	Question	Ans	Answer	
D12bi <i>(required)</i>	Please specify mode of crop land acquisition			
	Question relevant when: selected(\${D12b}, '777')			
D13 (required)	Is the land used for fish farming owned or rented? Please specify the mode of land acquisition		1	Inherited land
	Question relevant when: selected(\${nC} , '2') or selected(\${nC} , '3')	\vdash	2	Outright purchase
		\vdash	3	Given free from chief (allocated skin land or
			J	community land)
			4	Given free by relatives (allocated family land)
			5	Given free by government (allocated government land)
			6	Rented (with rental fee)
			7	Borrowed (for free use)
			8	Sharecropping agreement with landowner
		\vdash	9	Just walked in (e.g. cleared virgin land)
		\vdash		
			///	Other (Specify)
D13i <i>(required)</i>	Please specify mode of land acquisition			
Opposite de A. F O	Question relevant when: selected(\${D13}, '777')			
Consented > Active > Sources of inputs				
Consented > Active > Sources of inputs				
E1 (required)	Which tilapia strain did you use during last season/cycle?			ARDEC/Akosombo
	Select all that apply		2	Chinese
			3	Half-cast (Mixed breed between Chinese
				and Ghanaian strain)
			4	Wild
			999	Do not know
			777	Other (specify)
E1i (required)	Please specify tilapia strain			
	Question relevant when: selected(\${E1}, '777')			
E2 (required)	What was the source of the tilapia stock or strain?		1	ARDEC
	[if recycled from last season, what was the source when they bought the last time]		2	PAC
				Ashaiman ADC
				Private hatchery
		\vdash		Friends/neighbors
		\vdash	6	Own farm
		\vdash	7	Own hatchery or fingerling production
		\vdash		, , ,
		\vdash		From the wild
			///	Other (please specify)
E2i <i>(required)</i>	Please specify the source of the tilapia stock or strain Question relevant when: selected(\${E2}, '777')			
Consented > Active > Sources of input	s > Fingerlings > Fingerlings			
Consented > Active > Sources of inp	uts > Fingerlings > Fingerlings > Fingerling type 1			
E36a (required)	What is your first/major fingerling source?		1	ARDEC
			2	PAC
			3	Ashaiman ADC
			4	Private hatchery
				Friends/neighbors
				Own farm
				Own hatchery or fingerling production
				From the wild
			777	
E38a <i>(required)</i>	Distance from your first/major fingerling source ([E36a_name]) to your farm? 0 = Own farm Pitter 999 if don't know Question relevant when: selected(\${E36a}, '4') or selected(\${E36a}, '5') or selected(\${E36a}, '7') or selected(\${E36a}, '8') or selected(\${E36a}, '777') Response constrained to: (.>=0 and .<=998) or .=999			···
F38ai (required)			1 1	m
E38ai <i>(required)</i>	Unit of distance Question relevant when: \${E38a} > 0 and \${E38a} != 999	-	1 K	
			2 N	
			_	linutes (walk)
			4 N	leters

Field	Question	Answe	Answer		
E39a (required)	What is your perception on quality of your first/major fingerling type ([E36a_name])	1 \	Very good		
		2 (Good		
		3 5	Somewhat good		
			Not good		
E40a <i>(required)</i>	What is your perception of availability of your first/major fingerling type ([E36a_name])		Very good		
L+oa (requirea)	What is your perception or availability or your insumajor imgening type ([Looa_name])				
			Good		
			Somewhat good		
		4 1	Not good		
E41a (required)	What is your perception on affordability of your first/major fingerling type ([E36a_name])?	1 \	Very good		
		2 (2 Good 3 Somewhat good		
		3 5			
			Not good		
Consented > Active > Sources of	of inputs > Fingerlings > Fingerlings > Fingerling type 2				
Group relevant when: \${num_	E2) > 1				
E36b (required)	What is the name of your second major fingerling source?	1	ARDEC		
	g. g		PAC		
			Ashaiman ADC		
			Private hatchery		
			Friends/neighbors		
			Own farm		
		7	Own hatchery or fingerling production		
		8	From the wild		
		777	<u></u>		
E38b (required)	Distance from your second major fingerling source ([E36b_name]) to your farm?				
	0 = Own farm \(\rangle Fixed \) or selected (\\$\{ E36b} '4') or selected (\\$\{ E36b} '5') or selected (\\$\{ E36b}				
	, '7') or selected(\${E36b} , '8') or selected(\${E36b} , '777') Response constrained to: (.>=0 and .<=998) or .=999				
F20h: (required)	Unit of distance	4 1	· · ·		
E38bi <i>(required)</i>			1 Km		
	Question relevant when: \${E38b} > 0 and \${E38b} != 999		2 Miles		
			3 Minutes (walk)		
		4 1	Meters		
E39b (required)	What is your perception on quality of your second major fingerling type ([E36b_name])?	1 \	1 Very good		
		2 (2 Good		
		3 5	3 Somewhat good		
		4 1	Not good		
E40b <i>(required)</i>	What is your perception of availability of your second major fingerling type ([E36b_name])?	1 \	1 Very good		
			2 Good		
			3 Somewhat good		
			Not good		
F41h (required)	What is your perception on affordability of your second major fingerling type ([E36b_name])?		/ery good		
E41b <i>(required)</i>	what is your perception on anordability or your second major imgening type ([Loob_name]):		• •		
			2 Good		
			3 Somewhat good		
			Not good		
E41 (required)	Do you have any comments/story for your ratings on fingerlings quality, affordability or availability				
E42 (required)	What do you look for to know or judge the "quality" of fingerlings/broodstock you purchase?	1	I trust the source		
	if multiple, select all that applies	2	I trust the person/expert who told me that the		
			source or type of fingerling is of good quali		
		3	Appearance and method of packaging		
		4	Method of transportation		
		5	Past experience of using same fingerlings		
			same source		
		6	Appearance of fingerlings		
		8	Don't know		
		9	Don't check fingerling quality		
			Other (specify)		
E42i <i>(required)</i>	Please specify	1	· (*r · · · 2/		

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Field	Question	Ans	Answer			
E42_i (required)	Who is this "person"?		1	ARDEC		
	Question relevant when: selected(\${E42}, '2')		2	PAC		
			3	Ashaiman		
			4	Extension or zonal officer		
			5	Friend		
			6	Association/group leader		
			7	Feed company		
			777	Other (specify)		
E43 (required)	Do you use or heard of "certified seeds" used for crop farming?	П	1	Yes		
	[Certified seed means planting material that is well packaged in a bag with name/source and other details written on the package and comes from well established/registered source or supplier]		0	No		
			98	Not applicable		
E44 (required)	Kindly rate your level of trust or confidence on the quality and performance of "certified crop seed"		_	lo trust		
(compared to non-certified crop seed Question relevant when: selected(\${E43}, '1')		2 Little trust			
			3 Some trust			
		_	4 Strong trust			
545 () 0	Na contract of the contract of			complete trust		
E45 (required)	What is your reason for the rating?	H		I trust the source/supplier/seller		
	Question relevant when: selected(\${E43}, '1')	H		I do not trust the source/supplier/seller		
		Н		I trust the certification/inspection unit/agency		
			4	I do not trust the certification/inspection		
		ш		unit/agency		
			5	I tried and experienced it and it is better than		
		Ш		none certified seed		
			6	I tried and experienced it and its worse		
		Ш		compared to the none certified seed		
		ш	777	Other (specify)		
E46 (required)	Are the fingerlings/broodstock you buy "certified" or are the coming from "certified, established or		1	Yes		
	registered sources"?		0	No		
			999	Don't know		
E47 (required)	Would you prefer to buy a certified fingerlings/broodstock (or fingerlings/broodstock from certified, established or registered source) than not a certified source?		1	Yes		
			0	No		
			999	Don't know		
	Would you be willing to pay higher price for fingerling/broodstock to get it from certified or		1 Yes			
	registered sources?		0 No			
E48 (required)	Question relevant when: selected(\${E47}, '1')					
E49 (required)	How much (GHC) extra will you be willing to pay per fingerling/broodstock given the current price					
2.10 (1.044.1.00)	of fingerlings you buy					
	Question relevant when: selected(\${E48}, '1')					
E50 (required)	Kindly rate your level of trust or confidence on the quality and performance of certified		1	No trust		
(fingerlings/broodstock (or fingerlings/broodstock from certified, established or registered source)	Н		Little trust		
	compared to those not certified ones?	\vdash	3	Some trust		
		H	4	Strong trust		
		H		Complete trust		
		H		Don't know		
E51 (required)	What is your reason for the rating	H				
E51 (required)	What is your reason for the rating Question relevant when: not(selected(\${E50}, '999'))	\vdash		I trust the source/supplier/seller		
		H		I do not trust the source/supplier/seller		
		H		I trust the certification/inspection unit/agency		
			4	I do not trust the certification/inspection		
		H	_	unit/agency		
			5	I tried and experienced it and it is better than		
		\vdash	_	none certified seed		
			6	I tried and experienced it and its worse		
		H	777	Other (specify)		
FF4: (ve miller II)	Diago asseif.	ш	111	Other (specify)		
E51i <i>(required)</i>	Please specify					
F52 (12 miles 4)	Question relevant when: selected(\${E51}, '777')			l _v		
E52 <i>(required)</i>	You can also get your fish farm certified by government or independent private certification agency, like EcoMark Africa or Best Aquaculture Practices (BAP Certified), some fish farms in other countries apply for these certification scheme to export, get bigger market share and get higher			Yes		
				No		
			999	Don't know		
	prices for their fish. Do you think your buyers or consumer will be willing to buy more or willing to					
	pay higher prices for certified tilapia than those not?					

	Question	Ans	swer	
E53 (required)	Do you think you would like to adopt, apply or comply for certification system?	Т	1	Yes
			0	No
			999	Don't know
E54 (required)	What is the reason for your answer?		1	Not interested
	If multiple, select all that apply		2	Too expensive
	Question relevant when: selected(\${E53}, '1') or selected(\${E53}, '0')		3	Buyer/consumer will not care if certified not and will not pay higher prices
		\vdash	4	No plans to expand or export
			5	I have plans to expand and export
		\vdash	6	I want to have more buyers and get his
				prices
			7	Benefits exceed cost of certification
			8	Costs exceed benefits of certification
			777	Other (specify)
E55 (required)	Please specify			
	Question relevant when: selected(\${E54} , '777')			
E3 (required)	What type of broodstock/fingerling did you buy during your last production cycle?		1	Single sex
	Question relevant when: selected(\${E2}, '1') or selected(\${E2}, '2') or selected(\${E2}, '3') or		2	Mixed sex
	selected(\${E2} , '4') or selected(\${E2} , '5') or selected(\${E2} , '7') or selected(\${E2} , '777')		999	Don't know
Consented > Active > Source	es of inputs > Fingerlings > Other fingerling sources			
Group relevant when: sele	octed(\${E2} , '4') or selected(\${E2} , '5') or selected(\${E2} , '777')			
E4 (required)	What is the name of the source of your broodstock/fingerling?			
	(list up to two main sources)			T
	What is the location: Region	-		Eastern Region
		-		Volta Region
E5 (required)				Brong Ahafo Region
				Ashanti Region
		_	777	Other (specify)
E5i (required)	Please specify Region			

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	Field	Question	Answer	
	E5a	What is the location: Zone	1	
		Question relevant when: not(selected(\${E5}, '777'))	2	
			3	
			4	
			5	
			6	
			7	
			8	
			9	·
			10	
			1	1 Tano Zone
			12	
			13	3 Afram Plains Zone
			14	4 Akosombo Zone
			15	5 Kwaebibirem Zone
			16	6 New Juaben Zone
			17	7 KMA Zone
			18	8 Abutia
			19	9 Adaklu
			20	0 Adukope
			2	1 Agbokofe
			22	2 Agorta
			23	3 Akwetey
			24	4 Anloga-Zico
			2	5 Aveyime
			26	6 Bakpa tademe
			2	7 Blekope
			28	8 Gbi Atabu
			29	9 Godenu
			30	0 Have
			3	1 Hehekpoe
			32	2 Ho
			33	3 Hohoe
			34	4 Keta-Anyanui
			35	5 Keta-Kedzi
			36	6 Keta-Kedzokope
			3	7 Keta-Tegbi
			38	8 Keta-Abutiakope
			39	9 Kpenoe
			40	0 Kpeve
			4	1 Krachi East
			42	2 Nkwanta
			43	3 Sokode
			44	4 Tafi Atome
			4	5 Tefle
			46	6 Vodze
			4	7 Woadze Tornu
			48	8 Ziavi
			77	77 Other (specify)
			77	77 Other (specify)
			777	777 Other (specify)
			777	777 Other (specify)
	E5ai	Please specify Zone Question relevant when: selected(\${E5a}, '777777') or selected(\${E5a}, '777777') or selected(\${E5a}, '7777') or selected(\${E5a}, '7777')		
	E5b	What is the location: District	1	Adansi North
		Question relevant when: not(selected(\${E5a}, '777777')) and not(selected(\${E5a}, '77777'))	2	Obuasi Municipal
		and not(selected(\${E5a}, '7777')) and not(selected(\${E5a}, '777')) and not(selected(\${E5},	3	Asante-Akim North
		'777'))	4	Asante-Akim South
			5	Offinso North
			6	Offinso South
٠.	WO II Lawre MAKEDID IEMAL /Dawrela			00/00

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eld	Question	And	7 swer	Amansie Central
	xuoonon	AIR	8	Amansie West
			9	Bekwai Municipality
			10	Asante-Akim Central
				Asante-Akim North
				Asante-Akim South
				Atwima Kwanwoma
				Atwima Mponua
				Atwima Nwabiagya
			16	Ejura Sekye Domase
			17	Sekyere Central
			18	Sekyere East
				Sekyere South
				Afigya Kwabre
				Ejisu-Juaben
				KMA
			23	Kwabre East
			24	Asunafo North
			25	Asunafo South
				Berekum
				Dormaa East
				Dormaa Municipal
			29	Dormaa West
			30	Jaman Soth
			31	Wenchi Municipal
				Berekum
				Sunyani Municipal
				Sunyani West
				Tano North
			36	Tano South
			37	Kintampo Municipal
			38	Nkoranza North
				Nkoranza South
				Techiman Municipal
				Techiman North
				Fanteakwa
			43	Kwahu Afram Plains North
			44	Kwahu East
			45	Kwahu South
				Kwahu West
				Asuogyaman
				Lower Manya Krobo
			49	Upper Manya Krobo
			50	Akyemmansa
			51	Asene-Manso-Akroso
			52	Birim North
				Birim South
				Denkyembour
				Kwaebibirem
			56	Abuakwa North
			57	Abuakwa South
			58	Adeiso
				Atiwa East
				Ayensuano
				New Juaben North
				Nsawam Addoagyiri
				Suhum
			64	Upper West Akim
			65	West Akim
			66	Ho West
			00	
			67	Adaklu
			67	Adaklu

			70	Keta
Field	Question	An	swer	North Tongu
				South Tongu
				Adaklu
				Hohoe Municipal
				Hohoe Municipal
			76	Hohoe Municipal
			77	Adaklu
			78	Но
			79	Afadzato South
				Biakoye
				Hohoe Municipal
				Kajebi
				Kpando Municipality
			84	North Dayi
			85	South Dayi
			86	Keta
			87	Keta
				Keta
				Keta
				Keta
			91	
			92	South Dayi
			93	Krachi East
			94	Krachi East
			95	
				Hohoe Municipal
				South Tongu
				Adaklu
			99	Afadzato South
			100	Но
			101	Но
				South Tongu
				Other (specify)
				Other (specify)
				Other (specify)
			507	Other (specify)
			509	Other (specify)
			511	Other (specify)
				Other (specify)
				Other (specify)
			523	Other (specify)
			525	Other (specify)
				Other (specify)
				Other (specify)
				Other (specify)
			539	Other (specify)
				Other (specify)
			541	Other (specify)
			543	Other (specify)
			543 544	Other (specify) Other (specify)
			543 544 545	Other (specify) Other (specify) Other (specify)
			543 544 545 546	Other (specify) Other (specify) Other (specify)
			543 544 545 546 547	Other (specify) Other (specify) Other (specify) Other (specify) Other (specify)
			543 544 545 546 547 548	Other (specify) Other (specify) Other (specify) Other (specify) Other (specify) Other (specify)
			543 544 545 546 547 548	Other (specify) Other (specify) Other (specify) Other (specify) Other (specify)
			543 544 545 546 547 548 549	Other (specify) Other (specify) Other (specify) Other (specify) Other (specify) Other (specify)
			543 544 545 546 547 548 549	Other (specify)

				011 / 111
Field	Question	Ans	552 swer	Other (specify) Other (specify)
			554	Other (specify)
			555	Other (specify)
			556	Other (specify)
			557	Other (specify)
			558	Other (specify)
			559	Other (specify)
				Other (specify)
				Other (specify)
			565	Other (specify)
			566	Other (specify)
			567	Other (specify)
			568	Other (specify)
			569	Other (specify)
E5bi	Please specify District			
	Question relevant when: selected(\${E5a}, '777777') or selected(\${E5a}, '777777') or selected(
	\${E5a}, '7777') or selected(\${E5a}, '777') or selected(\${E5}, '777') or selected(\${E5b},			
	'501') or selected(\${E5b}, '503') or selected(\${E5b}, '505') or selected(\${E5b}, '507') or			
	selected(\${E5b}, '509') or selected(\${E5b}, '511') or selected(\${E5b}, '513') or selected(
	\${E5b}, '515') or selected(\${E5b}, '517') or selected(\${E5b}, '519') or selected(\${E5b},			
	'521') or selected(\${E5b}, '523') or selected(\${E5b}, '525') or selected(\${E5b}, '527') or			
	selected(\${E5b} , '529') or selected(\${E5b} , '531') or selected(\${E5b} , '533') or selected(
	\${E5b}, '535') or selected(\${E5b}, '537') or selected(\${E5b}, '539') or selected(\${E5b},			
	'541') or selected(\${E5b} , '543') or selected(\${E5b} , '544') or selected(\${E5b} , '545') or			
	selected(\${E5b} , '546') or selected(\${E5b} , '547') or selected(\${E5b} , '548') or selected(
	\${E5b}, '549') or selected(\${E5b}, '550') or selected(\${E5b}, '551') or selected(\${E5b},			
	'552') or selected(\${E5b} , '553') or selected(\${E5b} , '554') or selected(\${E5b} , '555') or			
	selected(\${E5b} , '556') or selected(\${E5b} , '557') or selected(\${E5b} , '558') or selected(
	\${E5b}, '559') or selected(\${E5b}, '560') or selected(\${E5b}, '561') or selected(\${			
	[562'] or selected(\${E5b}, '563') or selected(\${E5b}, '564') or selected(\${E5b}, '565') or			
	selected(\${E5b}, '566') or selected(\${E5b}, '567') or selected(\${E5b}, '568') or selected(
	\${E5b}, '569')			
E7a (required)				
E7a (required)	What is the name of person you purchased the fingerlings from			
E7b	What is his telephone number?			
E8a <i>(required)</i>	How did you know or learn about them?			Project
			2	MoFA extension agent
			3	Hatchery's own marketing and promotion
			4	Friends/neighbors
			5	Farmer associations
				Other (please specify)
F8ai (required)	Please specify how you know or learn about them			dr 27
E8ai <i>(required)</i>	Please specify how you know or learn about them Ougstion relevant when selected (\$\frac{9}{5}(\frac{9}{5}(\frac{9}{5})^{-1}, \frac{1}{77,7})}{77,7}			
F2 /	Question relevant when: selected(\${E8a}, '777')			
E9 (required)	Do you have any preference where or which source you buy from?		1 Y	
	Question relevant when: selected(\${E2}, '4') or selected(\${E2}, '5') or selected(\${E2}, '777')		0 N	0

E10 (required)	Which source is your most prefered?	1	ARDEC

	Question relevant when: selected(\${E9}, '1') Question	Ans	swer	PAC
	440000	7 1111	3	Ashaiman ADC
			4	Private hatchery
			5	Friends/neighbors
			6	Own farm
			7	Own hatchery or fingerling production
			8	From the wild
			777	Other (please specify)
E10i (required)	Please specify your most preferred source			
	Question relevant when: selected(\${E10}, '777')			
E11 (required)	Why is ([E10_name]) your most preferred source?			
	Question relevant when: selected(\${E9}, '1')			
Consented > Active > Sources	s of inputs > Fingerlings > E12E25			
Group relevant when: select	ted(\${E2} , '1') or selected(\${E2} , '2') or selected(\${E2} , '3') or selected(\${E2} , '4') or selected(\${E2} , '5') or	or sei	lecte	d(\${E2} , '777')
E12 (required)	What is the size of the fingerlings bought during last season/cycle? (in grams)			
E13 (required)	What is your preferred size of fingerlings that come from hatchery? (in grams)			
E14 (required)	The size of fingerlings you bought last season and your preferred size of fingerlings are different,			
	what is the reason for this?			
	Question relevant when: \${E12} != \${E13}			
E15 (required)	How is the broodstock/fingerling packaged?		1	Fish tank
			2	Double bag
			777	Other (please specify)
E15i <i>(required)</i>	Specify how the broodstock/fingerling is packaged			
()	Question relevant when: selected(\${E15}, '777')			
E16 (required)	Do you have preference on how the broodstock/fingerling should be packaged?		1 Y	es
(0 N	
E17 (required)	What is your professed broadsteak/financing packaging method?	Н		
E17 (required)	What is your preferred broodstock/fingerling packaging method? Question relevant when: selected(\${E16}, '1')			Fish tank
	Question relevant when selected of 10/, 1/			Double bag
			111	Other (please specify)
E17i <i>(required)</i>	Please specify your preferred broodstock/fingerling packaging method			
	Quaction relevant when: colocted/ \$\(\xi \)[777]			
	Question relevant when: selected(\${E17}, '777')			
E18 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged			
E18 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method?			
	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15} , \${E17})) and \${E16} = 1			
E18 (required) E19 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method?		1 Y	
	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15} , \${E17})) and \${E16} = 1		1 Y	
	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15} , \${E17})) and \${E16} = 1		0 N	
E19 <i>(required)</i>	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used?		0 N	0
E19 <i>(required)</i>	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used?		0 N	Own vehicle
E19 <i>(required)</i>	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used?		0 N	Own vehicle Hatchery vehicle
E19 <i>(required)</i>	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used?		0 N 1 2 3 4	Own vehicle Hatchery vehicle I hired transport
E19 <i>(required)</i>	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used?		0 N 1 2 3 4	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter
E19 (required) E20 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}), \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported?		0 N 1 2 3 4	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter
E19 (required) E20 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}), \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported? **Please specify how broodstock/fingerling was transported**		0 N 1 2 3 4	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify)
E19 (required) E20 (required) E20i (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported? **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, 7777)		0 N 1 2 3 4 777	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify)
E19 (required) E20 (required) E20i (required) E21 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported? **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, 7777) **Do you have preference on how the fingerlings should be transported?		0 N 1 2 3 4 777	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify)
E19 (required) E20 (required) E20i (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}), \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported? **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, '777') **Do you have preference on how the fingerlings should be transported? **What is your preference fingerling/broodstock transportation method?		0 N 1 2 3 4 7777 1 Y 1 Y 0 N 1	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es Own vehicle
E19 (required) E20 (required) E20i (required) E21 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported? **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, 7777) **Do you have preference on how the fingerlings should be transported?		0 N 1 2 3 4 7777 1 Y 1 Y 0 N 1 2	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es Own vehicle Hatchery vehicle
E19 (required) E20 (required) E20i (required) E21 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}), \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported? **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, '777') **Do you have preference on how the fingerlings should be transported? **What is your preference fingerling/broodstock transportation method?		0 N 1 2 3 4 7777 1 Y 1 Y 2 3 3	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport
E19 (required) E20 (required) E20i (required) E21 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}), \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported? **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, '777') **Do you have preference on how the fingerlings should be transported? **What is your preference fingerling/broodstock transportation method?		0 N 1 2 3 4 7777 1 Y 1 Y 2 3 4 4 4	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter
E19 (required) E20 (required) E20i (required) E21 (required) E22 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}), \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported? **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, '777') **Do you have preference on how the fingerlings should be transported? **What is your preference fingerling/broodstock transportation method? **Question relevant when: selected(\${E21}, '1')		0 N 1 2 3 4 7777 1 Y 1 Y 2 3 4 4 4	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport
E19 (required) E20 (required) E20i (required) E21 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used? **How was the broodstock/fingerling transported? **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, '777') **Do you have preference on how the fingerlings should be transported? **What is your preference fingerling/broodstock transportation method? **Question relevant when: selected(\${E21}, '1') **Please specify your preferred broodstock/fingerling transportation method		0 N 1 2 3 4 7777 1 Y 1 Y 2 3 4 4 4	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter
E19 (required) E20 (required) E20i (required) E21 (required) E22 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 Do you have some influence on the type of packaging used? How was the broodstock/fingerling transported? Please specify how broodstock/fingerling was transported Question relevant when: selected(\${E20}, '777') Do you have preference on how the fingerlings should be transported? What is your preference fingerling/broodstock transportation method? Question relevant when: selected(\${E21}, '1') Please specify your preferred broodstock/fingerling transportation method Question relevant when: selected(\${E22}, '777')		0 N 1 2 3 4 7777 1 Y 1 Y 2 3 4 4 4	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter
E19 (required) E20 (required) E20i (required) E21 (required) E22 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 Do you have some influence on the type of packaging used? How was the broodstock/fingerling transported? Please specify how broodstock/fingerling was transported Question relevant when: selected(\${E20}, '777') Do you have preference on how the fingerlings should be transported? What is your preference fingerling/broodstock transportation method? Question relevant when: selected(\${E21}, '1') Please specify your preferred broodstock/fingerling transportation method Question relevant when: selected(\${E22}, '777') Your preferred broodstock/fingerling transportation method and how your broodstock/fingerling are		0 N 1 2 3 4 7777 1 Y 1 Y 2 3 4 4 4	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter
E19 (required) E20 (required) E20i (required) E21 (required) E22 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used?** **How was the broodstock/fingerling transported?** **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, '777')** **Do you have preference on how the fingerlings should be transported?** **What is your preference fingerling/broodstock transportation method?** **Question relevant when: selected(\${E21}, '1')** **Please specify your preferred broodstock/fingerling transportation method **Question relevant when: selected(\${E22}, '777')** **Your preferred broodstock/fingerling transportation method and how your broodstock/fingerling are transported is different, what is the reason?**		0 N 1 2 3 4 7777 1 Y 1 Y 2 3 4 4 4	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter
E19 (required) E20 (required) E20i (required) E21 (required) E22 (required) E23 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not/selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used?** **How was the broodstock/fingerling transported?** **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, '777')** **Do you have preference on how the fingerlings should be transported?** **What is your preference fingerling/broodstock transportation method?** **Question relevant when: selected(\${E21}, '1')** **Please specify your preferred broodstock/fingerling transportation method **Question relevant when: selected(\${E22}, '777')** **Your preferred broodstock/fingerling transportation method and how your broodstock/fingerling are transported is different, what is the reason?** **Question relevant when: not(selected(\${E20}, \${E22},) and \${E21} = 1**		0 N 1 2 3 4 7777 1 Y 0 N 1 2 3 4 7777	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify)
E19 (required) E20 (required) E20i (required) E21 (required) E22 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not(selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used?** **How was the broodstock/fingerling transported?** **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, '777')** **Do you have preference on how the fingerlings should be transported?** **What is your preference fingerling/broodstock transportation method?** **Question relevant when: selected(\${E21}, '1')** **Please specify your preferred broodstock/fingerling transportation method **Question relevant when: selected(\${E22}, '777')** **Your preferred broodstock/fingerling transportation method and how your broodstock/fingerling are transported is different, what is the reason?**		1 Y 1 Y	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es o Own vehicle Own vehicle I hired transport Hatchery hires transporter Other (please specify)
E19 (required) E20 (required) E20i (required) E21 (required) E22 (required) E23 (required)	What is the reason for the difference in how the broodstock/fingerling you bought are packaged and your preferred broodstock/fingerling packaging method? **Question relevant when: not/selected(\${E15}, \${E17})) and \${E16} = 1 **Do you have some influence on the type of packaging used?** **How was the broodstock/fingerling transported?** **Please specify how broodstock/fingerling was transported **Question relevant when: selected(\${E20}, '777')** **Do you have preference on how the fingerlings should be transported?** **What is your preference fingerling/broodstock transportation method?** **Question relevant when: selected(\${E21}, '1')** **Please specify your preferred broodstock/fingerling transportation method **Question relevant when: selected(\${E22}, '777')** **Your preferred broodstock/fingerling transportation method and how your broodstock/fingerling are transported is different, what is the reason?** **Question relevant when: not(selected(\${E20}, \${E22},) and \${E21} = 1**		0 N 1 2 3 4 7777 1 Y 0 N 1 2 3 4 7777	Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es O Own vehicle Hatchery vehicle I hired transport Hatchery hires transporter Other (please specify) es o Own vehicle Own vehicle I hired transport Hatchery hires transporter Other (please specify)

E25a (required)	In the last or most recent fingerling transport, what was the mortality rate? (%)	
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	[mortality rate is the percentage of fingerlings that died during transport]			
Field	Quastronse constrained to: (.) <=100	Ans	wer	
E26 (required)	At what stage (what grams) of fingerlings or fish have you experienced the most mortality? (range	7 1110		
Lzo (requirea)				
	in grams) Provide range			
	Response constrained to: (string-length(.)>=1 and string-length(.)<=10)			
E27 (required)	In other countries, nurseries (i.e., producing fingerlings of up to 10g - 15g for grow-out farmers) are		1 Y	/oc
	profitable business venture, when managed properly. Greater mortality rates occur at fingerling		0 N	
	and juvenile production stages, so nursery operation can be potentially riskier, more knowledge-	-	-	
	intensive and more capital intensive business than grow-out farms. But with intensive training and	ш	2 1	do not know yet (I need more information)
	technical support and high enough prices for the juveniles to be sold to farmers, nursery operation			
	may prove to be profitable. One of the aims of this study is to assess the feasibility and test a few			
	pilot nurseries in Ghana. Are you interested and willing to pilot-test a nursery operation (i.e.,			
	producing fingerlings of up to 10g - 15g for grow-out farmers) to add to your existing grow-out			
	farm?			
E28 (required)	Why YES or NO?			
E25 (required)	Question relevant when: selected(\${E27}, '1') or selected(\${E27}, '0')			
E29 (required)	Do you have the required additional investments to upgrade into nursery and to be sustainable		4 1	1 22
Eze (requirea)			1 Y	
	(a potential project can only provide technical support but not financial support)?	Ш	0 N	10
E200 (rowings)	Question relevant when: selected(\${E27}, '1') or selected(\${E27}, '2')		, l	/nn
E300 (required)	Do you have a quarantine system for new or returning seed/fish (not necessarily new building, it	-	1 Y	
	can be just a compartment/section/hapas system to separate new broodstock/fish from existing or	Ш	0 N	10
F204 (4	main ones)		, I.	,
E301 (required)	Do you conduct in-house training for staff/employees?	-	1 Y	
		ш	0 N	lo
E302 (required)	Would you be interested and willing to start a hatchery operation or expand your hatchery		1 Y	´es
	operation (if you already have one), either on its own or to add to your existing grow-out farm?		0 N	lo
E303 (required)	Do you have the required additional investment to upgrade into hatchery operation and to be		1 Y	'es
	sustainable (a potential project can only provide technical support but not financial support)?		0 N	lo
	Question relevant when: selected(\${E302}, '1')			
Consented > Active > Sources of inputs	> Water			
E30 (required)	What is the source of water used in tilapia farming		1	Well
			2	River/stream
			3	Groundwater/borehole
			4	Tap water
				Lake
			6	Dam/irrigation
				Harvested rainwater
		Н		Other (specify)
F20: (conviced)	Disease assocify the source of water		111	Other (specify)
E30i <i>(required)</i>	Please specify the source of water Ougstion relevant when selected (\$\sigma(\frac{\pi}{2}\)\) (777)			
F00 () 0	Question relevant when: selected(\${E30}, '777')			
E32 (required)	Do you treat your water before discharge?		1 Y	
	Question relevant when: selected(\${nC}, '2') or selected(\${nC}, '3')	Ш	0 N	
E33 (required)	What is your source of water for post-harvest?		9	Do not undertake any post harvest
	Response constrained to: if(selected(., 9), count-selected(.) = 1, count-selected(.) >= 1)	Ш		processing
			1	Well
			2	River/stream
			2	River/stream Groundwater/borehole
			3	Groundwater/borehole
			3	Groundwater/borehole Tap water
			3 4 5	Groundwater/borehole Tap water Lake
			3 4 5 6 7	Groundwater/borehole Tap water Lake Dam/irrigation
E33i (<i>reauired</i>)	Please specify your source of water for post-harvest		3 4 5 6 7	Groundwater/borehole Tap water Lake Dam/irrigation Harvested rainwater
E33i <i>(required)</i>	Please specify your source of water for post-harvest Question relevant when: selected(\${E33}, '777')		3 4 5 6 7	Groundwater/borehole Tap water Lake Dam/irrigation Harvested rainwater
	Question relevant when: selected(\${E33}, '777')		3 4 5 6 7 7777	Groundwater/borehole Tap water Lake Dam/irrigation Harvested rainwater Other (please specify)
E33i (required) E304 (required)			3 4 5 6 7 7777	Groundwater/borehole Tap water Lake Dam/irrigation Harvested rainwater Other (please specify)
E304 (required)	Question relevant when: selected(\${E33}, '777') Do you have water quality record?		3 4 5 6 7 7777	Groundwater/borehole Tap water Lake Dam/irrigation Harvested rainwater Other (please specify)
	Question relevant when: selected(\${E33}, '777')		3 4 5 6 7 7777	Groundwater/borehole Tap water Lake Dam/irrigation Harvested rainwater Other (please specify)

E305 (required)	How do you check water quality?	1	Use instruments/gadgets to check	

i	if multiple, select all applicable Question	Δn	2	Through observing the colour of water
4	Question	All	swer 3	Presence of algae
			4	Behavior of the fish
			5	Smell of the water
			777	Other (specify)
E305i <i>(required)</i>	Please specify how you check water quality			
. , ,	Question relevant when: selected(\${E305}, '777')			
E306 (required)	How often do you check/observe water quality?		1	Daily
				Weekly
				Monthly
		\vdash		Few times a year
		-		·
		-	5	Almost never
			///	Other (specify)
E306i (required)	Please specify how often you check/observe water quality			
	Question relevant when: selected(\${E306}, '777')			
E307 (required)	Do you have effluent (waste water) management record?		1 Y	'es
	Question relevant when: selected(\${nC} , '2') or selected(\${nC} , '3')		0 N	lo .
E307a (required)	Did respondent show any proof/documentation for effluent management record?		1 Y	'es
	Question relevant when: selected(\${E307}, '1')		0 N	No
E307b (required)	What is the reason respondent was unable to show a proof/documentation for effluent			
20010 (roganou)	management record?			
	Question relevant when: selected(\${E307a}, '0')			
E308 (required)	How do you dispose of waste water?			
E308 (required)				
F200 (Question relevant when: selected(\$(nC), '2') or selected(\$(nC), '3')	-		
E309 (required)	How often do you change, add or renew pond water?	-		Daily
	Question relevant when: selected(\${nC}, '2') or selected(\${nC}, '3')			Weekly
			3	Monthly
			4	Few times a year
			5	Almost never
			777	Other (specify)
E309i (required)	Please specify how often you change, add or renew pond water			
	Question relevant when: selected(\${E309}, '777')			
E310 (required)	Did you dispose the sediment of this facility?		1 Y	'es
	Question relevant when: selected(\${nC} , '2') or selected(\${nC} , '3')		0 N	40
E310a (required)	After how many cycles did you remove the sediments? (number of cycles)		-	
Lo Tou (reguired)	Question relevant when: selected(\${E310}, '1')			
E240h (raquirad)	To where did you dispose the sediment?		4	Divers
E310b (required)		-		River
	Question relevant when: selected(\${E310}, '1')	-		On the dyke
				Crop field
			777	Other (specify)
E310c (required)	Please specify where you dispose off the sediment			
	Question relevant when: selected(\${E310b}, '777')			
E39n (required)	What is your perception on quality of water source for your pond/cage?		1 V	ery good
	Question relevant when: selected(\${nC}, '1') or selected(\${nC}, '2') or selected(\${nC}, '3')		2 0	Good
			3 8	Somewhat good
				Not good
E40n (required)	What is your perception of availability of water source for your pond?			/ery good
2.011 (roganou)	Question relevant when: selected($\$(nC)$, '2') or selected($\(nC), '3')			Good
	Queenon relevant mion. colocied winer, 27 or solocied winer, 37	-		
		-		Somewhat good
			4 N	lot good
	of inputs > Water source for post-harvest			
Group relevant when: not(se	lected(\${E33} , '9'))			
E38o (required)	What is the distance from the point of post-harvest to the nearest source of water for post-harvest 0 = Own farm or Senter 999 if don't know	t?		
E38oi (required)	Unit of distance		1 K	Κm
	Question relevant when: \${E38o} > 0 and \${E38o} !=999		2 N	Miles
				/linutes (walk)

E39o (required)	What is your perception on quality of water source for post-harvest?	1	Very good

	Question	^-	2	Good
	Question	An	3	Somewhat good
				Not good
E40o (required)	What is your perception of availability of water source for post-harvest?		1 '	Very good
(,				Good
				Somewhat good
			4	Not good
E41o (required)	What is your perception on affordability of water source for post-harvest?		1	Very good
	Question relevant when: not(selected(\${E33}, '2')) or not(selected(\${E33}, '5')) or		2	Good
	not(selected(\${E33} , '7'))		3	Somewhat good
				Not good
			4	Not good
Consented > Active > Sources of	finputs > Feed			
E34 (required)	What starter feeds do you use		1	Raanan
	If multiple, select all that applies		2	Multifeed
			3	Aller Aqua
			4	
			5	·
			77	7 Other (please specify)
E34i (required)	Please specify the starter feed you use			
	Question relevant when: selected(\${E34}, '777')			
E34a (required)	If on farm production selected, specify the raw materials/ingredients		1	Hay
•	Question relevant when: selected(\${E34} , '5')			Corn
				Maggot
			4	Poultry dropping
			5	Tiny fish meal
			6	Bran
			7	Cassava
			8	Legumes/beans/peas
				1
			9	Palm kernel
			777	7 Other (specify)
E34ai (required)	Please specify raw materials/ingredients			
	Question relevant when: selected(\${E34a} , '777')			
Consented > Active > Sources	s of inputs > Feed > Starter feed			
Consented > Active > Source	es of inputs > Feed > Starter feed > Starter Feed type 1			
E36c (required)	First/major starter feed type/source?		1	Raanan
Loos (required)	Thomagor starter rood type/source.			
				Multifeed
			3	Aller Aqua
			4	Coppens
			5	On farm production
				7
F00 - (no multipo d)	Distance for the second of (IEOO and III) to the second			
E38c (required)	Distance from your source of ([E36c_name]) to your farm? 0 = Own farm \(\sigma \) to \(\sigma \) to mow throw			
	Question relevant when: not(selected(\${E36c}, '5'))			
	Response constrained to: (.>=0 and .<=998) or .=999			
E38ci (required)	Unit of distance		1	Km
	Question relevant when: \${E38c} > 0 and \${E38c} != 999		2	Miles
			3	Minutes (walk)
				Meters
E30c (required)	What is your parcentian on the quality of //E26a name1/2			
E39c (required)	What is your perception on the quality of ([E36c_name])?		-	Very good
	Question relevant when: not(selected(\${E36c}, '5'))		2	Good
			1	Computat and
			3	Somewhat good
				Not good
F40c (required)			4	Not good
E40¢ (required)	What is your perception of the availability of ([E36c_name])?		1	Not good Very good
E40c <i>(required)</i>			1 2	Not good Very good Good
E40c <i>(required)</i>	What is your perception of the availability of ([E36c_name])?		1 2	Not good Very good
E40c <i>(required)</i>	What is your perception of the availability of ([E36c_name])?		1 2 3	Not good Very good Good
E40c (required) E41c (required)	What is your perception of the availability of ([E36c_name])?		1 1 2 1 3 3 4 1	Not good Very good Good Somewhat good Not good
	What is your perception of the availability of ([E36c_name])? Question relevant when: not(selected(\${E36c}, '5')) What is your perception on affordability of ([E36c_name])?		4 1 2 3 4 1	Not good Very good Good Somewhat good Not good Very good
	What is your perception of the availability of ([E36c_name])? Question relevant when: not(selected(\${E36c}, '5'))		4 1 2 4 1 1 1 1 1 1 1 1 1	Not good Very good Good Somewhat good Not good Very good Good
	What is your perception of the availability of ([E36c_name])? Question relevant when: not(selected(\${E36c}, '5')) What is your perception on affordability of ([E36c_name])?		4 1 2 4 1 1 2 4 1 2 4 3 3 3 3 3 3 3 3 3	Not good Very good Good Somewhat good Not good Very good

E36d (required)	Question Second major starter feed type/source	А	nswe 1	Raanan
				Multifeed
			_	Aller Aqua
			_	
				Coppens
			5	On farm production
			777	
E38d (required)	Distance from your source of ([E36d_name]) to your farm? 0 = Own farm Privalent support of the support of			
E38di (required)	Unit of distance		1 1	Km
	Question relevant when: \${E38d} > 0 and \${E38d} != 999		2 1	Miles
				Minutes (walk)
				Meters
E39d (required)	What is your perception on the quality of ([E36d_name])?		1 '	/ery good
	Question relevant when: not(selected(\${E36d}, '5'))		2	Good
			3 3	Somewhat good
			4 1	Not good
E40d (required)	What is your perception of the availability of ([E36d_name])		_	√ery good
2.00 (10901100)		-		
	Question relevant when: not(selected(\${E36d}, '5'))	<u> </u>		Good
			3 3	Somewhat good
			4 1	Not good
E41d (required)	What is your perception on affordability of ([E36d_name])?		1 1	Very good
	Question relevant when: not(selected(\${E36d}, '5'))		2 (Good
	Cassion Cottan Missi. Noticelested (#2500), 77)			Somewhat good
		_		
			4 1	Not good
	s of inputs > Feed > Starter feed > Starter ingredients_1 sted(\${E34} , '5') and (selected(\${E36c} , '5') or selected(\${E36d} , '5'))			
E36c_i (required)	First/major starter feed ingredient type/source?		1	Hay
			2	Corn
			3	Maggot
			4	
			_	
		_		Tiny fish meal
			6	Bran
			7	Cassava
			8	Legumes/beans/peas
			9	Palm kernel
			777	
E38c_i <i>(required)</i>	Distance from your source of ([E36c_i_name]) to your farm Enter 999 if don't know			
E38c_ii (required)	Unit of distance		1 1	Km
- • • •	Question relevant when: \${E38c_i} > 0 and \${E38c_i} !=999			Viles
		<u> </u>		Minutes (walk)
			4 1	Meters
E39c_i (required)	What is your perception on the quality of ([E36c_i_name])?		1	/ery good
			2	Good
			3 3	Somewhat good
				Not good
	Mark 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		_	
E40c_i (required)	What is your perception of availability of ([E36c_i_name])?			Very good
			2	Good
			3	Somewhat good
			4 1	Not good
	What is your perception on affordability of ([E36c_i_name])?		_	Very good
F41c i (required)	at to your perception on anoradonity of ([Lood_1_name]):	_		
E41c_i (required)				
E41c_i (required)		_		Good
E41c_i <i>(required)</i>				Somewhat good
E41c_i <i>(required)</i>			3 3	

E36d_i (required) Second major starter feed ingredient type/source?	1 Hay
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		2 Corn
ld	Question	Answer 3 Maggot
		4 Poultry dropping
		5 Tiny fish meal
		6 Bran
		7 Cassava
		8 Legumes/beans/peas
		9 Palm kernel
		777
E38d_i (required)	Distance from your source of ([E36d_i_name]) to your farm?	
	Enter 999 if don't know	
E38d_ii (required)	Unit of distance	1 Km
	Question relevant when: \${E38d_i} > 0 and \${E38d_i} !=999	2 Miles
		3 Minutes (walk)
		4 Meters
E39_i <i>(required)</i>	What is your perception on the quality of ([E36d_i_name])?	1 Very good
E39_i (required)	what is your perception on the quality of ([Lood_r_name])?	
		2 Good
		3 Somewhat good
		4 Not good
E40_i (required)	What is your perception of the availability of ([E36d_i_name])?	1 Very good
		2 Good
		3 Somewhat good
		4 Not good
	M	
E41_i <i>(required)</i>	What is your perception of affordability of ([E36d_i_name])?	1 Very good
		2 Good
		3 Somewhat good
		4 Not good
E35 (required)	What grow-out feeds do you use?	1 Raanan
	If multiple, select all that applies	2 Multifeed
		3 Aller Aqua
		4 Coppens
		5 On farm production
		777 Other (specify)
E35i (required)	Please specify the grow-out feed you use	
	Question relevant when: selected(\${E35} , '777')	
E35a <i>(required)</i>	If on farm production selected, specify the raw material/ingredients	1 Hay
	If multiple, select all that applies	2 Corn
	Question relevant when: selected(\${E35}, '5')	3 Maggot
		4 Poultry dropping
		5 Tiny fish meal
		6 Bran
		7 Cassava
		8 Legumes/beans/peas
		9 Palm kernel
		777 Other (specify)
E35ai <i>(required)</i>	Please specify raw materials/ingredients	
	Question relevant when: selected(\${E35a} , '777')	
Consented > Active > Sources	of inputs > Feed > Grow-out feed	·
	s of inputs > Feed > Grow-out feed > Grow-out Feed type 1	
E36e (required)	First/major grow-out feed type/source?	1 Raanan
==== (, = q=, = a)		2 Multifeed
		3 Aller Aqua
		4 Coppens
		5 On farm production
		777
E38e (required)	Distance from your source of ([E36e_name]) to your farm?	
	0 = Own farm Finter 999 if don't know	

E38ei <i>(required)</i> Un	Init of distance	1 Km
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E39e (required) E40e (required)	Question relevant when: \${E38e} > 0 and \${E38e} != 999 Question What is your perception on the quality of ([E36e_name])?	Ar	sw 3	Miles er Minutes (walk)
				Williatos (Walk)
				Meters
			-	
E40e (required)	Question relevant when: not(selected(\${E36e} , '5'))		-	Very good
E40e (required)	Question relevant when not selected (\$\psi_{\text{LODE}}\), \(\mathcal{J} \))			Good
E40e (required)		_		Somewhat good
E40e <i>(required)</i>			4	Not good
	What is your perception on the availability of ([E36e_name])?		1	Very good
	Question relevant when: not(selected(\${E36e}, '5'))		2	Good
			3	Somewhat good
			4	Not good
E41e (required)	What is your perception of affordability of ([E36e_name])?		1	Very good
	Question relevant when: not(selected(\${E36e}, '5'))		2	Good
			3	Somewhat good
			4	Not good
Consented > Active > Sources of	of inputs > Feed > Grow-out feed > Grow-out feed type 2			-
Group relevant when: \${num_				
E36f (required)	Second major grow-out feed type?		1	Raanan
Looi (requireu)	occoria major grow-out read type:		1	
			2	
		_	3	
			4	
			-	On farm production
			77	7
E38f (required)	Distance from your source of ([E36f_name]) to your farm?			
	0 = Own farm br/>Enter 999 if don't know			
	Question relevant when: not(selected(\${E36f}, '5'))			
E38fi (required)	Unit of distance		1	Km
	Question relevant when: \${E38f} > 0 and \${E38f} != 999		2	Miles
			3	Minutes (walk)
			4	Meters
E39f (required)	What is your perception of the quality of ([E36f_name])?		1	Very good
	Question relevant when: not(selected(\${E36f}, '5'))		2	Good
			3	Somewhat good
				Not good
E40f (required)	What is your perception of the availability of ([E36f_name])?		-	Very good
E-tot (rogaliou)	Question relevant when: not(selected(\${E36f}, '5'))		-	Good
	Question relevant when. Hoteselected (\$\psi_{\text{Look}}\)	_	-	
		_		Somewhat good
			4	Not good
E41f (required)	What is your perception of affordability of ([E36f_name])?		1	Very good
	Question relevant when: not(selected(\${E36f} , '5'))		2	Good
			3	Somewhat good
			4	Not good
Consented > Active > Sources	of inputs > Feed > Grow-out feed > Grow-out ingredients_1			
Group relevant when: selecte	ed(\${E36e} , '5') or selected(\${E36f} , '5')			
E36e_i (required)	First/major grow-out feed ingredient?		1	Hay
	Question relevant when: selected(\${E35}, '5')		2	
			3	
			4	
			5	
		-	6	•
			-	
			-	Cassava
			8	,
			9	
			77	7
E38e_i (required)	Distance from your source of ([E36e_i_name]) to your farm?			
	Enter 999 if don't know Question relevant when: selected(\${E35}, '5')			

E38e_ii <i>(required)</i> Unit	nit of distance	1 Km
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	Question relevant when: \${E38e_i} > 0 and \${E38e_i} !=999			Miles
	Question	Ans	swe 3	er Minutes (walk)
				Meters
E39e i (required)	What is your perception on the quality of ([E36e_i_name])		1	Very good
7	Question relevant when: selected(\${E35}, '5')		\vdash	Good
	α(ψ(), -)			Somewhat good
				Not good
E40 : (' ' '	MI 1:			
E40e_i (required)	What is your perception on the availability of ([E36e_i_name])?		\vdash	Very good
	Question relevant when: selected(\${E35}, '5')			Good
				Somewhat good
			4	Not good
E41e_i (required)	What is your perception of affordability of ([E36e_i_name])?		1	Very good
	Question relevant when: selected(\${E35}, '5')		2	Good
			3	Somewhat good
			4	Not good
Consented > Active > Source	s of inputs > Feed > Grow-out feed > grow-out feed ingredient			
Group relevant when: (sele	cted(\${E36e} , '5') or selected(\${E36f} , '5')) and count-selected(\${E35a}) >1			
E36f_i (required)	Second major grow-out feed ingredient		1	Hay
- • • •	,			Corn
				Maggot
			4	
				1 1 1 1 1
		-	5	
			6	
			7	
			8	Legumes/beans/peas
			9	Palm kernel
			77	7
E38f_i (required)	Distance from your source of ([E36f_i_name]) to your farm?			
	Enter 999 if don't know			
E38f_ii (required)	Unit of distance		1	Km
	Question relevant when: \${E38f_i} > 0 and \${E38f_i} !=999		2	Miles
			3	Minutes (walk)
			4	Meters
E39f_i (required)	What is your perception of the quality of ([E36f_i_name])		1	Very good
			\vdash	Good
				Somewhat good
				Not good
E40f_i <i>(required)</i>	What is your perception of the availability of ([E36f_i_name])?		1	Very good
			2	Good
			3	Somewhat good
			4	Not good
E41f_i (required)	What is your perception of the affordability of ([E36f_i_name])?		1	Very good
			2	Good
				Somewhat good
				Not good
E336 (required)	Do you have feeds and feeding records?			Yes
2000 (roquileu)	Do you have leeds and leeding records:			
F200 (; ; ;			Н	No
E336a (required)	Did farmer show you any proof/documentation for feed and feeding record?			Yes
	Question relevant when: selected(\${E336}, '1')		0	No
E337 (required)	How do you determine feeding amount?		1	Recommended by feed supplier
	If multiple, select all that applies		2	Based on fish feeding behaviour
			3	Fish body weight
			77	7 Other (specify)
E337i (required)	Please specify how you determine feeding amount			, , ,,
23011 (roquirou)	Question relevant when: selected(\${E337}, '777')			
F388 (required)			4	Voe
E388 (required)	Do you use drugs/chemical/antibiotics for your farm?	_		Yes
				No
E338a (required)	Do you keep records of drugs/chemical/antibiotic use?		1	Yes
	Question relevant when: selected(\${E388}, '1')		0	NI-

E338b (required) Did farmer show you a proof/documentation for drug/chemical/antibiotic use record?	1 Yes	
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Field	Question relevant when: selected(\${E338a} , '1') Question	0 Answ	No
E338d (required)	What is the name of the major drug/chemical/antibiotics you use?	Allow	61
	Question relevant when: selected(\${E388}, '1')		
E36g (required)	Do you use fertilizer for your fish pond?	1	Yes
	Question relevant when: selected(\${nC}, '2') or selected(\${nC}, '3')	0	No
Consented > Active > Sources of inputs :	> Fertilizer for fish pond		
Group relevant when: selected(\${E36g	·		
E37g <i>(required)</i>	What is the source of fertilizer for your fish pond?		1 Agro-input dealer shop
Long (required)	What is the source of refulizer for your list point:		
			2 Fisheries commission extension agent
			3 Hatchery
			4 Colleague farmer
			MoFA extension agent
			6 Market
			7 Own farm
		7	77 Other (specify)
E37gi <i>(required)</i>	Please specify the source of fertilizer for your fish pond		
	Question relevant when: selected(\${E37g} , '777')		
	Response constrained to: (string-length(.)<=40 and not(regex(.,'^(.*)\ld(.*)\$')))		
E38g <i>(required)</i>	What is the distance from the nearest source of fertilizer for your fish pond? Enter 999 if don't know		
E38gi <i>(required)</i>	Unit of distance	1	Km
	Question relevant when: \${E38g} > 0 and \${E38g} !=999	2	Miles
		3	Minutes (walk)
		4	Meters
E39g <i>(required)</i>	What is your perception on quality of fertilizer for your fish pond?	1	Very good
,	,		Good
			Somewhat good
			Not good
E40 = (magnificant)	Milestin and a second s	_	-
E40g <i>(required)</i>	What is your perception of availability of fertilizer for your fish pond?		Very good
			Good
		3	Somewhat good
		4	Not good
E41g (required)	What is your perception on affordability of fertilizer for your fish pond?	1	Very good
		2	Good
		3	Somewhat good
		4	Not good
E36h <i>(required)</i>	Do you use lime for your fish pond?	1	Yes
	Question relevant when: selected(\${nC} , '2') or selected(\${nC} , '3')		No
Consented > Active > Sources of inputs :			1
Group relevant when: selected(\${E36}			
E37h (required)	What is the source of lime for your fish pond?		1 Agro-input dealer shop
			PC extension agent
			3 Hatchery
			4 Colleague farmers
			MoFA extension agents
			6 Market
			7 Own farm
		7	77 Other (please specify)
E37hi (required)	Please specify the source of lime for your pond		
	Question relevant when: selected(\${E37h}, '777')		
E38h <i>(required)</i>	What is the distance from the nearest source of lime for your fish pond? 0 = Own farm First 999 if don't know		
E38hi (required)	Unit of distance	1	Km
	Question relevant when: \${E38h} > 0 and \${E38h} !=999	2	Miles
		3	Minutes (walk)
		4	Meters
E39h (required)	What is your perception on quality of lime for your fish pond?	1	Very good
			Good
			Somewhat good
			Not good
		4	Trot good

E40h (required) What is your perception of availability of lime for your fish pond?	1 Very good
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d	Question	2 Good
4	Question	Answer 3 Somewhat good
		4 Not good
E41h (required)	What is your perception on affordability of lime for your fish pond?	1 Very good
		2 Good
		3 Somewhat good
		4 Not good
F001 (' ' ')	D A 1 1 10	
E36k (required)	Do you use Agro-chemicals?	1 Yes
	Question relevant when: selected(\${D14}, '2')	0 No
Consented > Active > Sources		
Group relevant when: selecte	ed(\${E36k}, '1')	
E37k (required)	What is the source of Agro-chemicals you buy?	1 Agro-input dealer shop
		2 FC extension agent
		3 Hatchery
		4 Colleague farmers
		5 MoFA extension agents
		6 Market
		7 Own farm
		777 Other (please specify)
E37ki (required)	Please specify the source of agro-chemicals you buy	
	Question relevant when: selected(\${E37k}, '777')	
	Response constrained to: string-length(.)<=40	
E38k (required)	What is the distance from the nearest source of Agro-chemicals? Enter 999 if don't know	
E38ki (required)	Unit of distance	1 Km
	Question relevant when: \${E38k} > 0 and \${E38k} !=999	2 Miles
		3 Minutes (walk)
		4 Meters
E20k (no accine all	What is your paranting an available of Anna abancials you use an your forms?	
E39k (required)	What is your perception on quality of Agro-chemicals you use on your farm?	1 Very good
		2 Good
		3 Somewhat good
		4 Not good
E40k (required)	What is your perception of availability of Agro-chemicals you use on your farm?	1 Very good
		2 Good
		3 Somewhat good
		4 Not good
	What is your perception on affordability of Agro-chemicals you use on your farm?	
	What is your perception on anordability of Agro-chemicals you use on your farm:	1 Very good
		2 Good
E41k <i>(required)</i>		3 Somewhat good
		4 Not good
E36p (required)	Do you use transporters in your fish farming?	1 Yes
		0 No
Consented > Active > Sources	of inputs > Transporters	
Group relevant when: selecte	ed(\${E36p} , '1')	
E37p <i>(required)</i>	What is your source of transporters?	1 GPRTU/commercial transport
- F 1 - 7 7	.,	Own transport/vehicle
		4 private company
		777 Other (specify)
E37pi (required)	Please specify your source of transport	
	Question relevant when: selected(\${E37p}, '777')	
	Response constrained to: string-length(.)<=40	
E38p (required)	What is the distance to the nearest source of transport?	
	Enter 999 if don't know	
E38pi (required)	Unit of distance	1 Km
	Question relevant when: \${E38p} > 0 and \${E38p} !=999	2 Miles
		3 Minutes (walk)

E39p (required)	What is your perception on quality of transport?	1 Very good

Id	Question	A	2 Good
ld	Question	Ans	wer 3 Somewhat good
			4 Not good
E40p (required)	What is your perception of availability of transport?		1 Very good
		:	2 Good
		:	3 Somewhat good
		4	4 Not good
E41p (required)	What is your perception on affordability of transport?		1 Very good
		:	2 Good
			3 Somewhat good
		4	4 Not good
E36q (required)	Did you make any purchases of material needed for pond and cage construction/maintenance?		1 Yes
			0 No
Consented > Active > Sources of in	nputs > Materials needed for pond and cage construction/maintenance		
Group relevant when: selected(
E37q (required)	What is the source for the materials need for cage or pond construction/maintenance?		1 Agro-input dealer shop
,,,,,			2 FC extension agent
		\Box	3 Hatchery
			4 Colleague farmers
		\vdash	5 MoFA extension agents
		\vdash	6 Market
		\vdash	7 Own farm
		H.	777 Other (please specify)
E27gi (raquirad)	Places energy years of meterials provided for each or panel assets at a first and a section of the control of t		Other (please specify)
E37qi <i>(required)</i>	Please specify your source of materials needed for cage or pond construction/maintenance		
	Question relevant when: selected(\${E37q} , '777')		
FOO - (no maior all)	Response constrained to: string-length(.)<=40		
E38q (required)	What is the distance to the nearest source of material needed for cage or pond		
	construction/maintenance? Enter 999 if don't know		
E38qi <i>(required)</i>	Unit of distance	1	1 Km
	Question relevant when: \${E38q} > 0 and \${E38q} !=999	_	2 Miles
	Question relevant when. \(\psi_{\beta\text{out}} > \text{out} \(\psi_{\beta\text{out}} = 000 \)	_	3 Minutes (walk)
		_	4 Meters
F20 (/ d)	What's a second is a second in the second of		
E39q (required)	What is your perception on quality of materials needed for cage and pond		1 Very good
	construction/maintenance?		2 Good
		_	3 Somewhat good
		4	4 Not good
E40q (required)	What is your perception of availability of materials needed for cage and pond		1 Very good
	construction/maintenance?	1	Good Good
		;	3 Somewhat good
		4	Not good
E41q (required)	What is your perception on affordability of materials needed for cage and pond		1 Very good
	construction/maintenace?		2 Good
			3 Somewhat good
		4	4 Not good
Pb_2 (required)	Please can you remember your farms's costs of production during your last full production cycle?		1 Yes, I can remember
•	Mainly input costs and other operating/maintenance costs?		0 No, I can't remember
	Question relevant when: selected(\${A01}, '4')		1 - 2
Consented > Active > Tilapia farm co			
	(A01} , '1') or selected(\${A01} , '2') or selected(\${Pb_2} , '1')		
Consented > Active > Tilapia farm			
•	\${nC} , '1') or selected(\${nC} , '3')		
	m cost of production > Cage Culture > Cage Fixed Costs		
F1a <i>(required)</i>	Please do you have the following land and building items?		3 None
. , ,	Please select all applicable		Warehouse [for equipment and feed]
	Response constrained to: if(selected(., '3'), count-selected(.) =1, count-selected(.) >=1)	\vdash	Offices and on-site housing facilities
		<u></u>	777 Other (specify)
Eda : (manufire all	Specify land and building item	1	other (apoony)
F1a_i <i>(required)</i>	Laberty land and numbro here		

Consented > Active > Tilapia farm cost of production > Cage Culture > Cage Fixed Costs > Land and building costs (1)	(Repeated group)	
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Group relevant when: not(selecte	aqaasanans_noassnors_san			
	Question Question	An	swer	
	<= 2, selected(\${F1a} , index()), selected(\${F1a} , '777'))	1		
F4a (required)				
r4a (requireu)	Cost of purchase or rental/lease of (Warehouse [for equipment and feed]) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
EEo (required)				Only 4 seems
F5a <i>(required)</i>	Please specify if the cost given for (Warehouse [for equipment and feed]) is for 1 cage or all		1	Only 1 cage
	cage operations			All cages
	Question relevant when: \${F4a} !=999			Not applicable
			777	Other (please specify)
F5ai <i>(required)</i>	Please specify the number of cages the cost given for (Warehouse [for equipment and feed])			
	covers			
	Question relevant when: selected(\${F5a}, '777')			
F6a <i>(required)</i>	Please specify the number of years this cost applies to (Warehouse [for equipment and feed]) (life span of the equipment or asset or length of lease/rental/permit) is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4a} !=999			
Consented > Active > Tilapia farm	cost of production > Cage Culture > Cage Fixed Costs > Land and building costs (2)	(Re	peate	ed group)
Group relevant when: not(selecte				
	n cost of production > Cage Culture > Cage Fixed Costs > Land and building costs (2) > land-buildingc			
) <= 2,selected(\${F1a} , index()),selected(\${F1a} , '777'))			
F4a (required)	Cost of purchase or rental/lease of (Offices and on-site housing facilities) (GHS) Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999			
F5a (required)	Please specify if the cost given for (Offices and on-site housing facilities) is for 1 cage or all		1	Only 1 cage
	cage operations		2	All cages
	Question relevant when: \${F4a} !=999		98	Not applicable
			777	Other (please specify)
F5ai <i>(required)</i>	Please specify the number of cages the cost given for (Offices and on-site housing facilities)			
(10401100)	covers			
	Question relevant when: selected(\${F5a}, '777')			
F6a <i>(required)</i>	Please specify the number of years this cost applies to (Offices and on-site housing facilities) (Iffe span of the equipment or asset or length of lease/rental/permit/s-br/>[e.g., if Iffespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \$\{F4a\} !=999			
Consented > Active > Tilapia farm	cost of production > Cage Culture > Cage Fixed Costs > Land and building costs (3)	(Re	peate	ed group)
Group relevant when: not(selecte		<u> </u>		
	n cost of production > Cage Culture > Cage Fixed Costs > Land and building costs (3) > land-buildingc			
	$0 \le 2$, selected($\$\{F1a\}$, index()), selected($\$\{F1a\}$, '777'))	,		
	Cost of purchase or rental/lease of ([land-building_name]) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
F5a <i>(required)</i>	Please specify if the cost given for ([land-building_name]) is for 1 cage or all cage operations		1	Only 1 cage
	r lease specify if the cost given for ([iaild=building_flathe]) is for a cage of all cage operations			· -
	Question relevant when: \${F4a} !=999		2	All cages
				All cages Not applicable
			98	Not applicable
EEG (required)	Question relevant when: \${F4a} I=999		98	
F5ai <i>(required)</i>	Question relevant when: \${F4a} !=999 Please specify the number of cages the cost given for ([land-building_name]) covers		98	Not applicable
,	Question relevant when: \${F4a} !=999 Please specify the number of cages the cost given for ([land-building_name]) covers Question relevant when: selected(\${F5a}, '777')		98	Not applicable
F5ai <i>(required)</i> F6a <i>(required)</i>	Question relevant when: \${F4a} !=999 Please specify the number of cages the cost given for ([land-building_name]) covers		98	Not applicable
,	Question relevant when: \${F4a} I=999 Please specify the number of cages the cost given for ([land-building_name]) covers Question relevant when: selected(\${F5a}, '777') Please specify the number of years this cost applies to ([land-building_name]) (Ilfe span of the equipment or asset or length of lease/rental/permit) for 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]		98	Not applicable Other (please specify)
F6a <i>(required)</i>	Question relevant when: \${F4a} !=999 Please specify the number of cages the cost given for ([land-building_name]) covers Question relevant when: selected(\${F5a}, '777') Please specify the number of years this cost applies to ([land-building_name]) (life span of the equipment or asset or length of lease/rental/permit) by years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4a} !=999		98 777	Not applicable Other (please specify)
F6a (required) F7a (required) F7ai (required)	Please specify the number of cages the cost given for ([land-building_name]) covers Question relevant when: selected(\${F5a}, '777') Please specify the number of years this cost applies to ([land-building_name]) (life span of the equipment or asset or length of lease/rental/permit) https://e.g. , if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4a} !=999 Did you incur site evaluation and selection cost? What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F7a}, '1')		98 777 1 Y 0 N	Not applicable Other (please specify) es
F6a <i>(required)</i> F7a <i>(required)</i>	Question relevant when: \${F4a} I=999 Please specify the number of cages the cost given for ([land-building_name]) covers Question relevant when: selected(\${F5a}, '777') Please specify the number of years this cost applies to ([land-building_name]) (Ille span of the equipment or asset or length of lease/rental/permit) <a e.g."="" href="https://permit.is/permit</td><td></td><td>98
777
1 Y
0 N</td><td>Not applicable Other (please specify) es o Only 1 cage</td></tr><tr><td>F6a (required) F7a (required) F7ai (required)</td><td>Please specify the number of cages the cost given for ([land-building_name]) covers Question relevant when: selected(\${F5a}, '777') Please specify the number of years this cost applies to ([land-building_name]) (life span of the equipment or asset or length of lease/rental/permit)https://e.g. , if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4a} !=999 Did you incur site evaluation and selection cost? What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F7a}, '1')		98 777 1 Y 0 N	Not applicable Other (please specify) es o Only 1 cage All cages
F6a (required) F7a (required) F7ai (required)	Question relevant when: \${F4a} I=999 Please specify the number of cages the cost given for ([land-building_name]) covers Question relevant when: selected(\${F5a}, '777') Please specify the number of years this cost applies to ([land-building_name]) (Ille span of the equipment or asset or length of lease/rental/permit)			

F7aiii <i>(required)</i>	Please specify the number of cages the cost given for site selection and evaluation covers	
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019		aquaculture_household_survey_labor_printable (2).htl			
d		Question relevant when: selected(\${F7aii}, '777') Question Please specify the number of year the cost for site selection and evaluation applies	An	swer	
	F7aiv (required)				
		(life span of the equipment or asset or length of lease/rental/permit) is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]			
		Question relevant when: selected(\${F7a}, '1') and \${F7ai} !=999			
	F1b (required)	Please do you have the following fishing gears?		5	None
	. (4	Please select all applicable	Н	1	Fish cages constructed and installed wi
		Response constrained to: if(selected(., '5'), count-selected(.) =1, count-selected(.) >=1)		'	
			-		platforms
				2	Canoe and accessories
				3	Outboard motors
				4	Protective gears [life jackets, scoop net
					etc.]
				777	Other (specify)
	F1b_i (required)	Specify fishing gear item			
	· ···	Question relevant when: selected(\${F1b}, '777')			
	Consented > Active > Tilania	farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (1)	(R	noat	ed group)
			(176	speat	ed group)
	Group relevant when: not(s				
		ia farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (1) > fishing-gearc			
	Group relevant when: if(i	ndex() <= 4,selected(\${F1b} ,index()),selected(\${F1b} ,'777'))			
	F4b (required)	Cost of purchase or rental/lease of (Fish cages constructed and installed with platforms) (GHS)			
		Enter 999 and proceed if don't know			
		Response constrained to: (.>=1 and .<=500000) or .=999			
	F5b (required)	Please specify if the cost given for (Fish cages constructed and installed with platforms) is for 1		1	Only 1 cage
		cage or all cage operations		2	All cages
		Question relevant when: \${F4b} !=999		98	Not applicable
			Н		1
				111	Other (please specify)
	F5bi <i>(required)</i>	Please specify the number of cages the cost given for (Fish cages constructed and installed			
		with platforms) covers			
		Question relevant when: selected(\${F5b}, '777')			
	F6b (required)	Please specify the number of years this cost applies to (Fish cages constructed and installed			
		with platforms)			
		(life span of the equipment or asset or length of lease/rental/permit) fr/>[e.g., if lifespan of warehouse built			
		is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
		0.5]			
		Question relevant when: \${F4b} !=999			
	Consented > Active > Tilapia	farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (2)	(Re	epeat	ed group)
	Group relevant when: not(s	selected(\${F1b} , '5'))			
	Consented > Active > Tilap	ia farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (2) > fishing-gearc			
	Group relevant when: if(i	index() <= 4,selected(\${F1b} ,index()),selected(\${F1b} ,'777'))			
	F4b (required)	Cost of purchase or rental/lease of (Canoe and accessories) (GHS)			
	· ib (regamen)	Enter 999 and proceed if don't know			
		Response constrained to: (.>=1 and .<=500000) or .=999			
	F5b (required)	Please specify if the cost given for (Canoe and accessories) is for 1 cage or all cage operations		1	Only 1 cage
	. == (. = 400 00)	Question relevant when: \${F4b} !=999	\vdash		
		ฉนองแบบ เฮเซซลาน พบาฮก. พุโ จมร :-ของ	-		All cages
				98	Not applicable
				777	Other (please specify)
	F5bi <i>(required)</i>	Please specify the number of cages the cost given for (Canoe and accessories) covers			
		Question relevant when: selected(\${F5b}, '777')			
	F6b (required)	Please specify the number of years this cost applies to (Canoe and accessories)			
		(life span of the equipment or asset or length of lease/rental/permit) fr/>[e.g., if lifespan of warehouse built			
		is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
		0.5]			
		Question relevant when: \${F4b} !=999			
		farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (3)	(Re	epeat	ed group)
	Group relevant when: not(s	selected(\${F1b} , '5'))			
	Consented > Active > Tilap	ia farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (3) > fishing-gearc			
	Group relevant when: if(i	index() <= 4,selected(\${F1b} ,index()),selected(\${F1b} ,'777'))			
	F4b (required)	Cost of purchase or rental/lease of (Outboard motors) (GHS)			
	- (Enter 999 and proceed if don't know			
		Response constrained to: (.>=1 and .<=500000) or .=999			
	F5b (required)	Please specify if the cost given for (Outboard motors) is for 1 cage or all cage operations		1	Only 1 cage
	. oo poquilou)	Question relevant when: \${F4b}!=999			
		ฉนองแบบ เฮเซงสมน พมาฮม. ซุโ จมร :-ฮฮฮ			All cages
				00	Not applicable
				98	Not applicable

F5bi <i>(required)</i>	Please specify the number of cages the cost given for (Outboard motors) covers	

/2019	aquaculture_nousenoid_survey_iabor_printable (2).ni	
eld Folk (service d)	Question relevant when: selected(\${F5b}, '777') Question	Answer
F6b (required)	Question Please specify the number of years this cost applies to (Outboard motors) (life span of the equipment or asset or length of lease/rental/permit)-br/>[e.q., if lifespan of warehouse built	
	is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in	
	0.5]	
	Question relevant when: \${F4b} !=999	
	a farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (4)	(Repeated group)
Group relevant when: not(
Consented > Active > Tilap	pia farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (4) > fishing-gearc	
Group relevant when: if(index() <= 4,selected(\${F1b} ,index()),selected(\${F1b} ,'777'))	
F4b (required)	Cost of purchase or rental/lease of (Protective gears [life jackets, scoop nets etc.]) (GHS)	
	Enter 999 and proceed if don't know	
EEL (no military)	Response constrained to: (.>=1 and .<=500000) or .=999	
F5b (required)	Please specify if the cost given for (Protective gears [life jackets, scoop nets etc.]) is for 1 cage	1 Only 1 cage
	or all cage operations	2 All cages
	Question relevant when: \${F4b} !=999	98 Not applicable
		777 Other (please specify)
F5bi (required)	Please specify the number of cages the cost given for (Protective gears [life jackets, scoop	
	nets etc.]) covers	
	Question relevant when: selected(\${F5b} , '777')	
F6b (required)	Please specify the number of years this cost applies to (Protective gears [life jackets, scoop	
	nets etc.])	
	(life span of the equipment or asset or length of lease/rental/permit) < br/>br/>[e.g., if lifespan of warehouse built	
	is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]	
	Question relevant when: \${F4b} !=999	
Consented > Active > Tilapia	a farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (5)	(Repeated group)
Group relevant when: not(
	oia farm cost of production > Cage Culture > Cage Fixed Costs > fishing gear costs (5) > fishing-gearc	
	index() <= 4,selected(\${F1b}, index()),selected(\${F1b}, '777'))	
F4b (required)	Cost of purchase or rental/lease of ([fishing-gear_name]) (GHS)	
r4b (required)	Enter 999 and proceed if don't know	
	Response constrained to: (.>=1 and .<=500000) or .=999	
F5b (required)	Please specify if the cost given for ([fishing-gear_name]) is for 1 cage or all cage operations	1 Only 1 cage
(- , ,	Question relevant when: \${F4b} !=999	2 All cages
		98 Not applicable
		777 Other (please specify)
F5bi <i>(required)</i>	Please specify the number of cages the cost given for ([fishing-gear_name]) covers	
	Question relevant when: selected(\${F5b} , '777')	
F6b (required)	Please specify the number of years this cost applies to ([fishing-gear_name])	
	(life span of the equipment or asset or length of lease/rental/permit) str/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in	
	0.5]	
	Question relevant when: \${F4b} !=999	
F1c (required)	Please do you have the following machinery, equipment?	7 None
	Please select all applicable	1 Generator
	Response constrained to: if(selected(., '7'), count-selected(.) =1, count-selected(.) >=1)	2 Ice making machine
		3 Cold storage or cold chain
		4 Deep freezer
		5 Water quality equipment [including oxyge
		meter]
		6 Security/monitoring equipment [CCTV
		camera, lights etc.]
		
		777 Other (specify)
F1c_i <i>(required)</i>	Specify machinery and equipment item	
	Question relevant when: selected(\${F1c} , '777')	
	a farm cost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (1)	(Repeated group)
Group relevant when: not((selected(\${F1c} , '7'))	
Consented > Active > Tilap	oia farm cost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (1) > mac	hinery-equipc
Group relevant when: if(index() <= 6,selected(\${F1c} ,index()),selected(\${F1c} ,'777'))	
F4c (required)	Cost of purchase or rental/lease of (Generator) (GHS)	
	Enter 999 and proceed if don't know	
	Response constrained to: (.>=1 and .<=500000) or .=999	

F5c (required)	Please specify if the cost given for (Generator) is for 1 cage or all cage operations	1	Only 1 cage

	Question relevant when: \${F4c} !=999		2	All cagos
Field	Question	An	swer	All cages
			98	Not applicable
			777	Other (please specify)
F5ci (required)	Please specify the number of cages the cost given for (Generator) covers			
	Question relevant when: selected(\${F5c} , '777')			
F6c (required)	Please specify the number of years this cost applies to (Generator) (life span of the equipment or asset or length of lease/rental/permit/ //e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c} !=999			
Consented > Active > Tilapia farm co	ost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (2)	(Re	epeate	ed group)
Group relevant when: not(selected		(
, , , , , , , , , , , , , , , , , , , ,	cost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (2) > mach	inon	, ogui	200
	cost of production = Cage United = Cage Fixed Costs = Tributinely and equipment costs (2) = Tributinely a	пету	-equi	50
F4c (required)	Cost of purchase or rental/lease of (Ice making machine) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
F5c (required)	Please specify if the cost given for (Ice making machine) is for 1 cage or all cage operations		1	Only 1 cage
	Question relevant when: \${F4c} !=999		2	All cages
				Not applicable
			///	Other (please specify)
F5ci (required)	Please specify the number of cages the cost given for (Ice making machine) covers Question relevant when: selected(\${F5c}, '777')			
F6c (required)	Please specify the number of years this cost applies to (Ice making machine) (life span of the equipment or asset or length of lease/rental/permit) /sri>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c} !=999			
Consented > Active > Tilapia farm co	ost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (3)	(Re	epeate	ed group)
Group relevant when: not(selected	/(\${F1c} , '7'))			
	cost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (3) > mach	inerv	/-earii	nc
	ecct of production ** Cogg Contains ** Cogg Final Code ** Internating Value Cogg Final Code (C) ** International Code (ii iCi y	oqui	
F4c (required)	Cost of purchase or rental/lease of (Cold storage or cold chain) (GHS)			
	Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999			
F5c (required)	Please specify if the cost given for (Cold storage or cold chain) is for 1 cage or all cage		1	Only 1 cage
	operations		2	All cages
	Question relevant when: \${F4c} !=999			
				Not applicable
			///	Other (please specify)
F5ci (required)	Please specify the number of cages the cost given for (Cold storage or cold chain) covers Question relevant when: selected(\${F5c}, '777')			
F6c (required)	Please specify the number of years this cost applies to (Cold storage or cold chain) (life span of the equipment or asset or length of lease/rental/permit)-br/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c} !=999			
Consented > Active > Tilapia farm co	st of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (4)	(Re	epeate	ed group)
Group relevant when: not(selected	'(\${F1c} , '7'))			
Consented > Active > Tilapia farm	cost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (4) > mach	inery	-equi	DC
	<= 6,selected(\${F1c} ,index()),selected(\${F1c} ,'777'))			
F4c (required)	Cost of purchase or rental/lease of (Deep freezer) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
F5c (required)	Please specify if the cost given for (Deep freezer) is for 1 cage or all cage operations		1	Only 1 cage
(,	Question relevant when: \${F4c} !=999			
	Question relevant when the first see			All cages
			98	Not applicable
			777	Other (please specify)
F5ci (required)	Please specify the number of cages the cost given for (Deep freezer) covers			
Fe	Question relevant when: selected(\${F5c}, '777')			
F6c <i>(required)</i>	Please specify the number of years this cost applies to (Deep freezer) (life span of the equipment or asset or length of lease/rental/permit/>br/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c} !=999			
Consented > Active > Tilania farm co	est of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (5)	(Re	eneate	ed group)
Group relevant when: not(selected		(176	peate	a group)

Group relevant when: if(ind	ex() \sim = 6,selected(\\${F1c} ,index()),selected(\\${F1c} ,'777'))	٨٠	C14/0"	
F4c (required)	Question Cost of purchase or rental/lease of (Water quality equipment [including oxygen meter]) (GHS)	An	swer	
	Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999			
F5c (required)	Please specify if the cost given for (Water quality equipment [including oxygen meter]) is for 1		1	Only 1 cage
	cage or all cage operations		2	All cages
	Question relevant when: \${F4c} !=999			Not applicable
		Н		
		Н	///	Other (please specify)
F5ci <i>(required)</i>	Please specify the number of cages the cost given for (Water quality equipment [including			
	oxygen meter]) covers			
	Question relevant when: selected(\${F5c}, '777')			
F6c (required)	Please specify the number of years this cost applies to (Water quality equipment [including			
	oxygen meter])			
	(life span of the equipment or asset or length of lease/rental/permit) fe.g., if lifespan of warehouse built			
	is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
	0.5]			
	Question relevant when: \${F4c} !=999			
Consented > Active > Tilapia fa	rm cost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (6)	(Re	peat	ed group)
Group relevant when: not(sel	ected(\${F1c} , '7'))			
	farm cost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (6) > mach	niner		inc
		iiiici	-equi	pc
	ex() <= 6, selected(\${F1c} , index()), selected(\${F1c} , '777'))			
F4c (required)	Cost of purchase or rental/lease of (Security/monitoring equipment [CCTV camera, lights etc.])			
	(GHS)			
	Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999			
F5c (required)	Please specify if the cost given for (Security/monitoring equipment [CCTV camera, lights etc.])		1	Only 1 cage
	is for 1 cage or all cage operations		2	All cages
	Question relevant when: \${F4c} !=999			Not applicable
	, , , , , , , , , , , , , , , , , , ,	-		
			///	Other (please specify)
F5ci <i>(required)</i>	Please specify the number of cages the cost given for (Security/monitoring equipment [CCTV			
	camera, lights etc.]) covers			
	Question relevant when: selected(\${F5c} , '777')			
F6c (required)	Please specify the number of years this cost applies to (Security/monitoring equipment [CCTV			
1 de (requirea)				
	camera, lights etc.])			
	(life span of the equipment or asset or length of lease/rental/permit) spr/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
	0.5]			
	Question relevant when: \${F4c} !=999			
Consented > Active > Tilapia fa	rm cost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (7)	(Re	eneat	ed group)
Group relevant when: not(sel		(,	pour	ou g. oup,
	farm cost of production > Cage Culture > Cage Fixed Costs > machinery and equipment costs (7) > mach	nnery	-equi	ipc
Group relevant when: if(ind	lex() <= 6,selected(\${F1c} ,index()),selected(\${F1c} ,'777'))			
F4c (required)	Cost of purchase or rental/lease of ([mach-equip_name]) (GHS)			
	Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999			
F5c (required)	Please specify if the cost given for ([mach-equip_name]) is for 1 cage or all cage operations		1	Only 1 cage
	Question relevant when: \${F4c} !=999			All cages
	Question relevant when. \$\psi_1 \tag{1} \tag{2}:=555			Not applicable
	question rolevant when, ψ_{i} 407:-333		90	
	Question rolevant when, ψ_{i} 407:-333			Other (please specify)
F5ci <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers			Other (please specify)
F5ci <i>(required)</i>				Other (please specify)
	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777')			Other (please specify)
F5ci (required) F6c (required)	Please specify the number of cages the cost given for ([mach-equip_name]) covers **Question relevant when: selected(\${F5c}, '777')* Please specify the number of years this cost applies to ([mach-equip_name])			Other (please specify)
	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777')			Other (please specify)
	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) by:/>[e.g., if lifespan of warehouse built			Other (please specify)
	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) by firespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			Other (please specify)
	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) by/s/e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]		777	Other (please specify)
F6c <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit/ is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c} !=999		6	None
F6c <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) by if lease, if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c}!=999 Please do you have the following permits?		6 1	None Environmental permit
F6c <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) bit 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c}!=999 Please do you have the following permits? Please select all applicable		6	None Environmental permit Water use permit from Water Resource
F6c <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) bit 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c}!=999 Please do you have the following permits? Please select all applicable		6 1	None Environmental permit
F6c <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) bit 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c}!=999 Please do you have the following permits? Please select all applicable		6 1	None Environmental permit Water use permit from Water Resource
F6c <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) bit 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c}!=999 Please do you have the following permits? Please select all applicable		6 1 2	None Environmental permit Water use permit from Water Resource Commission (WRC)
F6c <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) bit 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c}!=999 Please do you have the following permits? Please select all applicable		7777 6 1 2 3 4	None Environmental permit Water use permit from Water Resource Commission (WRC) Operational permit from FC District assembly permit
F6c <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) bit 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c}!=999 Please do you have the following permits? Please select all applicable		6 1 2	None Environmental permit Water use permit from Water Resource Commission (WRC) Operational permit from FC District assembly permit Volta River Authority (VRA) water alloca
F6c <i>(required)</i>	Please specify the number of cages the cost given for ([mach-equip_name]) covers Question relevant when: selected(\${F5c}, '777') Please specify the number of years this cost applies to ([mach-equip_name]) (life span of the equipment or asset or length of lease/rental/permit) bit 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4c}!=999 Please do you have the following permits? Please select all applicable		7777 6 1 2 3 4	None Environmental permit Water use permit from Water Resources Commission (WRC) Operational permit from FC

F1d_i (required)	Please specify permit	

		Overting and eventually and advantage of the ACC (CA) (CTA)		
Field		Question relevant when: selected(\${F1d} , '777')	Anouro	
rieiu	Consented > Active > Tilapia farm co	Question st of production > Cage Culture > Cage Fixed Costs > permits costs (1)	(Repeat	ed group)
	Group relevant when: not(selected	· ((\${F1d} , '6'))		
	Consented > Active > Tilania form	cost of production > Cage Culture > Cage Fixed Costs > permits costs (1) > permitsc		
	Group relevant when: It(Index()	<= 5,selected(\${F1d} ,index()),selected(\${F1d} ,'777'))		
	F3d (required)	Is the respondent able to show any proof/document for (Environmental permit)?	1 1	/es
			1 0	No
	F3di <i>(required)</i>	What is the reason why respondent was unable to show proof/documentation?		
	r dar (regamed)			
		Question relevant when: selected(\${F3d} , '0')		
	F4d <i>(required)</i>	What is the cost of acquiring (Environmental permit) (GHS)		
		Enter 999 and proceed if don't know		
		Response constrained to: (.>=1 and .<=500000) or .=999		
	F5d (required)	Please specify if the cost given for (Environmental permit) is for 1 cage or all cage operations	1	Only 1 cage
		Question relevant when: \${F4d} !=999	2	All cages
			98	Not applicable
			777	Other (please specify)
	F5di (required)	Please specify the number of cages the cost given for (Environmental permit) covers		
	, , ,	Question relevant when: selected(\${F5d}, '777')		
	F6d (required)	Please specify the number of years this cost applies to (Environmental permit)		
		(life span of the equipment or asset or length of lease/rental/permit) scr, if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in		
		0.5]		
		Question relevant when: \${F4d} !=999		
			-	
		ost of production > Cage Culture > Cage Fixed Costs > permits costs (2)	(Repeat	ed group)
	Group relevant when: not(selected	((\${F1d} , '6'))		
	Consented > Active > Tilapia farm	cost of production > Cage Culture > Cage Fixed Costs > permits costs (2) > permitsc		
	Group relevant when: if(index()	<= 5,selected(\${F1d} ,index()),selected(\${F1d} ,'777'))		
	F3d (required)	Is the respondent able to show any proof/document for (Water use permit from Water	1 1	/
	1 3u (requireu)			
		Resources Commission (WRC))?	1 0	No
	F3di (required)	What is the reason why respondent was unable to show proof/documentation?		
		Question relevant when: selected(\${F3d}, '0')		
	Edd (required)			
	F4d <i>(required)</i>	What is the cost of acquiring (Water use permit from Water Resources Commission (WRC))		
		(GHS)		
		Enter 999 and proceed if don't know		
		Response constrained to: (.>=1 and .<=500000) or .=999		
	F5d (required)	Please specify if the cost given for (Water use permit from Water Resources Commission	1	Only 1 cage
		(WRC)) is for 1 cage or all cage operations	2	All cages
		Question relevant when: \${F4d} !=999		
		adoction for talk whom \$\langle \{ i \ ray \} \cos		Not applicable
			777	Other (please specify)
	F5di (required)	Please specify the number of cages the cost given for (Water use permit from Water Resources		
		Commission (WRC)) covers		
		Question relevant when: selected(\${F5d}, '777')		
	F6d (required)	Please specify the number of years this cost applies to (Water use permit from Water		
		Resources Commission (WRC))		
		(life span of the equipment or asset or length of lease/rental/permit) span of the equipment or asset or length of lease/rental/permit) span of the equipment or asset or length of lease/rental/permit) span of the equipment or asset or length of lease/rental/permit) span of the equipment or asset or length of lease/rental/permit) span of the equipment or asset or length of lease/rental/permit) span of the equipment or asset or length of lease/rental/permit) span of the equipment or asset or length of lease/rental/permit) span of the equipment or asset or length of lease/rental/permit) span of the equipment of lease/rental/permit span of the equipment of lease/rental/permit span of the equipment of lease span of the		
		is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in		
		0.5]		
		Question relevant when: \${F4d} !=999		
	Consented > Active > Tilapia farm co	ost of production > Cage Culture > Cage Fixed Costs > permits costs (3)	(Repeat	red group)
	Group relevant when: not(selected	((\${F1d} , '6'))		
	Consented > Active > Tilania farm	cost of production > Cage Culture > Cage Fixed Costs > permits costs (3) > permitsc		
		<= 5,selected(\${F1d}, index()),selected(\${F1d}, '.777'))		
	F3d (required)	Is the respondent able to show any proof/document for (Operational permit from FC)?	1 1	/es
			1 0	No
	F3di <i>(required)</i>	What is the reason why respondent was unable to show proof/documentation?		
		Question relevant when: selected(\${F3d}, '0')		
	F4d (required)	What is the cost of acquiring (Operational permit from FC) (GHS)		
		Enter 999 and proceed if don't know		
		Response constrained to: (.>=1 and .<=500000) or .=999		
	F5d (required)	Please specify if the cost given for (Operational permit from FC) is for 1 cage or all cage	1	Only 1 cage
		operations		All cages
		Question relevant when: \${F4d} !=999		-
		auconon toleralit mileti. ψεί τας :-333	98	Not applicable
			777	Other (please specify)

F5di (required)	Please specify the number of cages the cost given for (Operational permit from FC) covers	

		Question relevant when: selected(\${F5d}, '777')				
Field F	F6d (required)	Question Please specify the number of years this cost applies to (Operational permit from FC)	Ans	wer		
		(life span of the equipment or asset or length of lease/rental/permit) s/2,e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4d} !=999				
Cons	sented > Active > Tilapia farm co	st of production > Cage Culture > Cage Fixed Costs > permits costs (4)	(Re	peate	ed group)	
Gr	oup relevant when: not(selected	(\${F1d}, '6'))				
Со	nsented > Active > Tilapia farm	cost of production > Cage Culture > Cage Fixed Costs > permits costs (4) > permitsc				
(Group relevant when: if(index() <	<= 5,selected(\${F1d}, index()),selected(\${F1d}, '777'))				
F	F3d (required)	Is the respondent able to show any proof/document for (District assembly permit)?		1 Y	es	
				0 N	0	
F	F3di <i>(required)</i>	What is the reason why respondent was unable to show proof/documentation? Question relevant when: selected(\$\{F3d\}, '0'\)				
F	F4d (required)	What is the cost of acquiring (District assembly permit) (GHS) Enter 999 and proceed if don't know				
		Response constrained to: (.>=1 and .<=500000) or .=999				
F	5d (required)	Please specify if the cost given for (District assembly permit) is for 1 cage or all cage operations		1	Only 1 cage	
		Question relevant when: \${F4d} !=999		2	All cages	
				98	Not applicable	
			П	777	Other (please specify)	
F	F5di <i>(required)</i>	Please specify the number of cages the cost given for (District assembly permit) covers Question relevant when: selected(\${F5d}, '777')				
F	-6d <i>(required)</i>	Please specify the number of years this cost applies to (District assembly permit) (life span of the equipment or asset or length of lease/rental/permit) /sr/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4d}! =999				
Cons	sented > Active > Tilapia farm co	st of production > Cage Culture > Cage Fixed Costs > permits costs (5)	(Re	neate	ed group)	
	oup relevant when: not(selected		(.topoatou g.oup)			
		cost of production > Cage Culture > Cage Fixed Costs > permits costs (5) > permitsc				
		<= 5,selected(\${F1d}, index()),selected(\${F1d}, '777'))				
	F3d <i>(required)</i>	Is the respondent able to show any proof/document for (Volta River Authority (VRA) water		1 Y	es	
		allocation permit)?		0 N		
F	F3di <i>(required)</i>	What is the reason why respondent was unable to show proof/documentation?				
	() ()	Question relevant when: selected(\${F3d}, '0')				
F	F4d <i>(required)</i>	What is the cost of acquiring (Volta River Authority (VRA) water allocation permit) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999				
F	F5d (required)	Please specify if the cost given for (Volta River Authority (VRA) water allocation permit) is for 1		1	Only 1 cage	
		cage or all cage operations	П	2	All cages	
		Question relevant when: \${F4d} !=999		98	Not applicable	
				777	Other (please specify)	
F	5di <i>(required)</i>	Please specify the number of cages the cost given for (Volta River Authority (VRA) water allocation permit) covers Question relevant when: selected(\${F5d}, '777')				
F	F6d (required)	Please specify the number of years this cost applies to (Volta River Authority (VRA) water				
·	ou (required)	allocation permit) (life span of the equipment or asset or length of lease/rental/permit) is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F4d}!=999				
Cons	ented > Active > Tilapia farm co	st of production > Cage Culture > Cage Fixed Costs > permits costs (6)	(Re	peate	ed group)	
Group relevant when: not(selected(\${F1d}, '6'))						
		cost of production > Cage Culture > Cage Fixed Costs > permits costs (6) > permitsc = 5,selected(\${F1d}, index()),selected(\${F1d}, '777'))				
	F3d (required)	Is the respondent able to show any proof/document for ([permits_name])?		1 Y	es	
			-	0 N		
F	F3di <i>(required)</i>	What is the reason why respondent was unable to show proof/documentation? Question relevant when: selected(\${F3d}, '0')		- . •	-	
F	F4d <i>(required)</i>	What is the cost of acquiring ([permits_name]) (GHS)				
'	(, odanos)	Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999				

F5d (required) Please specify if the cost given for ([permits_name]) is for 1 cage or all	cage operations 1 Only 1 cage
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Answer Not applicable 777 Other (please specify) Other (specify) Other (speci
([permits_name]) covers o([permits_name]) ((permits_name]) ((permits_name
o ([permits_name]) wipermity-br/>[e.g., if lifespan of warehouse built 20. if permit is for 6 months renewal, type in
A None
A None
A None Pelleting machine
elected(,) =1, count-selected(,) >=1) A
elected(,) =1, count-selected(,) >=1) 1
elected(,) =1, count-selected(,) >=1) 1
elected(,) =1, count-selected(,) >=1) 1
2 Vehicles 3 Incubator or incubation system 777 Other (specify)
other tools costs (1) other tools costs (1) > other-toolsc e) (GHS) a) is for 1 cage or all cage operations of (Pelleting machine) other tools costs (2) other tools costs (2) other tools costs (2) other tools costs (2) other tools costs (3) (Repeated group) other tools costs (3) (Repeated group) other tools costs (4) other tools costs (5) other tools costs (6) other tools costs (7) other tools costs (8) other tools costs (8) other tools costs (9)
other tools costs (1) other tools costs (1) > other-toolsc e) (GHS) =999 e) is for 1 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) > other-toolsc (Repeated group) other tools costs (2) > other-toolsc Polluting machine Only 1 cage
other tools costs (1) (Repeated group) > other tools costs (1) > other-toolsc a) (GHS) =999 a) is for 1 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) > other-toolsc (Repeated group) > other tools costs (2) > other-toolsc
> other tools costs (1) > other-toolsc a) (GHS) .=999 a) is for 1 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) other tools costs (2) > other-toolsc .=999 cage or all cage operations 1 Only 1 cage (Repeated group) All cages 98 Not applicable 777 Other (please specify) other tools costs (2) > other-toolsc 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) > other-toolsc 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Repeated group)
> other tools costs (1) > other-toolsc a) (GHS) .=999 a) is for 1 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) other tools costs (2) > other-toolsc .=999 cage or all cage operations 1 Only 1 cage (Repeated group) All cages 98 Not applicable 777 Other (please specify) other tools costs (2) > other-toolsc 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) > other-toolsc 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Repeated group)
> other tools costs (1) > other-toolsc a) (GHS) .=999 a) is for 1 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) other tools costs (2) > other-toolsc .=999 cage or all cage operations 1 Only 1 cage (Repeated group) All cages 98 Not applicable 777 Other (please specify) other tools costs (2) > other-toolsc 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) > other-toolsc 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Repeated group)
> other tools costs (1) > other-toolsc a) (GHS) .=999 a) is for 1 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) other tools costs (2) > other-toolsc .=999 cage or all cage operations 1 Only 1 cage (Repeated group) > other tools costs (2) > other-toolsc .=999 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) other tools costs (2) > other-toolsc
a) is for 1 cage or all cage operations 1
a) is for 1 cage or all cage operations 1
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a) is for 1 cage or all cage operations 1
a) is for 1 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Pelleting machine) a) (
a) is for 1 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Pelleting machine) of (Pelleting machine)
2 All cages 98 Not applicable 777 Other (please specify) 6 (Pelleting machine) covers 778 Other (please specify) 779 Other (please specify) 770 Other (please specify) 770 Other (please specify) 771 Other (please specify) 771 Other tools costs (2) 772 Other tools costs (2) 773 Other tools costs (2) 774 Other tools costs (2) 775 Other (please specify) 776 Other (please specify) 777 Other (please specify) 777 Other (please specify) 778 Other (please specify) 779 Other (please specify) 770 Other (please specify) 770 Other (please specify) 771 Other (please specify) 772 Other (please specify) 773 Other (please specify) 774 Other (please specify) 775 Other (please specify) 776 Other (please specify) 777 Other (please specify)
98 Not applicable 777 Other (please specify) (Pelleting machine) (Repeated group) (Repeated group) (Pelleting machine) (Pelleting
(Pelleting machine) covers (Pelleting machine) (Pelleting machine
o (Pelleting machine) o (Pelleting machine) ol/permit/sbr/>[e.g., if lifespan of warehouse built 20; if permit is for 6 months renewal, type in other tools costs (2) > other tools costs (2) > other-toolsc
o (Pelleting machine) il/permit/>br/>[e.g., if lifespan of warehouse built 20; if permit is for 6 months renewal, type in other tools costs (2) > other tools costs (2) > other-toolsc
o (Pelleting machine) oli/permit/>br/>[e.g., if lifespan of warehouse built 20; if permit is for 6 months renewal, type in other tools costs (2) (Repeated group) > other tools costs (2) > other-toolsc
All permit of permit is for 6 months renewal, type in other tools costs (2) other tools costs (2) (Repeated group) other tools costs (2) > other-toolsc -999 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Vehicles) covers o (Vehicles) other tools costs (3) (Repeated group)
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> other tools costs (2) > other-toolsc -999 cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Vehicles) covers o (Vehicles) al/permit/sbr/>[e.g., if lifespan of warehouse built 20; if permit is for 6 months renewal, type in other tools costs (3) (Repeated group)
cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Vehicles) covers o (Vehicles) ol/permit/s/pr/>[e.g., if lifespan of warehouse built 20; if permit is for 6 months renewal, type in other tools costs (3) (Repeated group)
cage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Vehicles) covers o (Vehicles) ol/permit/s/pr/>[e.g., if lifespan of warehouse built 20; if permit is for 6 months renewal, type in other tools costs (3) (Repeated group)
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acage or all cage operations 1 Only 1 cage 2 All cages 98 Not applicable 777 Other (please specify) (Vehicles)
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777 Other (please specify) **(Vehicles) covers **o (Vehicles) **o (Ve
o (Vehicles) o (Vehicles) o (Vehicles) ol/permit/s for 6 g., if lifespan of warehouse built 20; if permit is for 6 months renewal, type in other tools costs (3) (Repeated group)
o (Vehicles) al/permit/s/pr/>[e.g., if lifespan of warehouse built 20; if permit is for 6 months renewal, type in other tools costs (3) (Repeated group)
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other tools costs (3) (Repeated group)
> other tools costs (3) > other-toolsc
- Other tools costs (d) > Other-toolse
hatter and any (OUO)
pation system) (GHS)
=999
. ,
98 Not applicable
2 All cages

F5ei (required) Please specify the number of cages the cost given for (Incubator or incubation system) covers

	Question relevant when: selected(\${F5e} , '777')			
d F6e <i>(required)</i>	Question Please specify the number of years this cost applies to (Incubator or incubation system)	Ans	wer	
	(life span of the equipment or asset or length of lease/rental/permit) br/>[e.g., if lifespan of warehouse built			
	is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
	0.5)			
	Question relevant when: \${F4e} !=999			
Consented > Active > Tilapia f	arm cost of production > Cage Culture > Cage Fixed Costs > other tools costs (4)	(Rep	eate	ed group)
Group relevant when: not(se	'ected(\${F1e} , '3'))			
Consented > Active > Tilapia	farm cost of production > Cage Culture > Cage Fixed Costs > other tools costs (4) > other-toolsc			
Group relevant when: if(in	dex() <= 3,selected(\${F1e} ,index()),selected(\${F1e} ,'777'))			
F4e <i>(required)</i>	Cost of purchase or rental/lease of ([othertools_name]) (GHS)			
	Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999			
F5e <i>(required)</i>	Please specify if the cost given for ([othertools_name]) is for 1 cage or all cage operations	П	1	Only 1 cage
	Question relevant when: \${F4e} !=999			All cages
	adocion rolovan mon. \$1, 10j.	\vdash		-
			98	Not applicable
			777	Other (please specify)
F5ei (required)	Please specify the number of cages the cost given for ([othertools_name]) covers			
	Question relevant when: selected(\${F5e} , '777')			
F6e <i>(required)</i>	Please specify the number of years this cost applies to ([othertools_name])			
100 (10401100)	(life span of the equipment or asset or length of lease/rental/permit) sr/>[e.g., if lifespan of warehouse built			
	is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
	0.5]			
	Question relevant when: \${F4e} !=999			
F8 (required)	Please did you purchase or use any of the following items last full production season/cycle (5-6		1	Fingerling/broodstock (pieces)
	months)?		2	Starter Feed
			3	Grow-out Feed
		\vdash		
		\vdash	4	Chemicals (salts, potassium permangana
		\square	5	Drugs (antibiotics, etc.)
			6	Hormones
			7	Vaccines
			8	Fuel
			9	Transportation cost (aside fuel cost)
		_	10	Electricity (e.g. cold storage)
			11	Disinfectants
			12	New anchor to re-position cage (items
				purchased aside labor)
			13	Items purchased for pond Mending of nets
				(items purchased aside labor cost)
			14	Re-fabricating galvanized pipes (items
				purchased aside labor cost)
				, ,
			4 =	
				Replacement of worn-out barrels
				Other (please specify)
F8i <i>(required)</i>	Please specify item purchased			
F8i (required)	Please specify item purchased Question relevant when: selected(\${F8}, '777')			
	Question relevant when: selected(\${F8}, '777')		777	
Consented > Active > Tilapia far	Question relevant when: selected(\${F8}, '777') n cost of production > Cage Culture > Fingerling/broodstock (pieces) (1)		777	Other (please specify)
Consented > Active > Tilapia fan Consented > Active > Tilapia fa	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) Airm cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc		777	Other (please specify)
Consented > Active > Tilapia fan Consented > Active > Tilapia fan Group relevant when: if(inde	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc If selected(\${F8}, index()), selected(\${F8}, '777'))		777	Other (please specify)
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Consented > Active > Tilapia fan Consented > Active > Tilapia fan Group relevant when: if(inde	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) Irrm cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Irrm cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Irrm cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Irrm cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Irrm cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Irrm cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Irrm cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc		777	Other (please specify)
Consented > Active > Tilapia fan Consented > Active > Tilapia fan Group relevant when: if(inde cg_quantity (required)	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) Irrm cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc If selected(\${F8}, index()), selected(\${F8}, '777')) What quantity/amount of (Fingerling/broodstock (pieces)) did you use in last production season/cycle? If item was purchased in bulk without a defined unit, enter 1 for Quantity		777	Other (please specify)
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Consented > Active > Tilapia fan Consented > Active > Tilapia fan Group relevant when: if(inde cg_quantity (required)	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc		1 2 3 4 5	Other (please specify) ed group) 1kg 20kg 50kg Litre(s) Bulk purchase in GHS (One time paymen
Consented > Active > Tilapia fan Consented > Active > Tilapia fan Group relevant when: if(inde cg_quantity (required)	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc		1 2 3 4 5	Other (please specify) ed group) 1kg 20kg 50kg Litre(s) Bulk purchase in GHS (One time paymen Piece(s)
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Consented > Active > Tilapia fan Consented > Active > Tilapia fan Group relevant when: if(inde cg_quantity (required)	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc		1 2 3 4 5	Other (please specify) ad group) 1kg 20kg 50kg Litre(s) Bulk purchase in GHS (One time payment Piece(s)
Consented > Active > Tilapia fan Consented > Active > Tilapia fan Group relevant when: if(inde cg_quantity (required)	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc	(Кер	1 2 3 4 5 6 7 8	Other (please specify) ed group) 1kg 20kg 50kg Litre(s) Bulk purchase in GHS (One time payment Piece(s) Gallon(s)
Consented > Active > Tilapia fan Consented > Active > Tilapia fan Group relevant when: if(inde cg_quantity (required) cg_unit (required)	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc In cost of production > Operations-costc In cost of product	(Кер	1 2 3 4 5 6 7 8	Other (please specify) ed group) 1kg 20kg 50kg Litre(s) Bulk purchase in GHS (One time payment Piece(s) Gallon(s) Gram(s)
Consented > Active > Tilapia fan Consented > Active > Tilapia fan Group relevant when: if(inde cg_quantity (required)	Question relevant when: selected(\${F8}, '777') In cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc Item cost of production > Cage Culture > Fingerling/broodstock (pieces) (1) > operations-costc	(Кер	1 2 3 4 5 6 7 8	Other (please specify) ed group) 1kg 20kg 50kg Litre(s) Bulk purchase in GHS (One time paymen Piece(s) Gallon(s) Gram(s)

cg_cost (required) What is the cost per unit (GHS/unit) of (Fingerling/broodstock (pieces)) used?	
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	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and	A		
cg_totalcost	enterstichcost here GHC [totalvc_cage]	Ans	wer	
eg_totaleost	Total cost of Fingerling/broodstock (pieces) (GHS)			
Consented > Active > Tilapia farm	cost of production > Cage Culture > Starter Feed (2)	(Rep	eate	ed group)
	n cost of production > Cage Culture > Starter Feed (2) > operations-costc	(3-1-67
) <= 15,selected(\${F8}, index()),selected(\${F8}, '777'))			
cg_quantity (required)	What quantity/amount of (Starter Feed) did you use in last production season/cycle?			
as unit (required)	If item was purchased in bulk without a defined unit, enter 1 for Quantity		4	41cm
cg_unit (required)	Unit for quantity of (Starter Feed) used If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit	\vdash		1kg
	In term was purchased in bulk without a defined drift, enter 1 for quantity, select bulk purchase for orin		2	20kg
			3	50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time paym
			6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
		1		
		-	///	Other (specify)
cg_unit_i (required)	Please specify unit			
	Question relevant when: selected(\${cg_unit}, '777')			
cg_cost (required)	What is the cost per unit (GHS/unit) of (Starter Feed) used?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and			
cg_totalcost	enter total cost here GHC [totalvc_cage]			
og_total005t	Total cost of Starter Feed (GHS)			
Consented > Active > Tilapia farm	cost of production > Cage Culture > Grow-out Feed (3)	(Rep	eate	ed group)
	n cost of production > Cage Culture > Grow-out Feed (3) > operations-costc			
) <= 15, selected(\${F8}, index()), selected(\${F8}, '777'))			
cg_quantity <i>(required)</i>	What quantity/amount of (Grow-out Feed) did you use in last production season/cycle? If item was purchased in bulk without a defined unit, enter 1 for Quantity			
cg_unit (required)	Unit for quantity of (Grow-out Feed) used		1	1kg
eg_unit (required)	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit			
		\vdash		20kg
				50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time payme
			6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
			777	Other (specify)
cg_unit_i (required)	Please specify unit			(
cg_unic_i (requirea)				
	Question relevant when: selected(\${cg_unit}, '777')			
cg_cost <i>(required)</i>	What is the cost per unit (GHS/unit) of (Grow-out Feed) used?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here			
cg_totalcost	GHC [totalvc_cage]			
	Total cost of Grow-out Feed (GHS)			
Consented > Active > Tilapia farm	cost of production > Cage Culture > Chemicals (salts, potassium permanganate) (4)	(Rep	eate	ed group)
Consented > Active > Tilapia far	n cost of production > Cage Culture > Chemicals (salts, potassium permanganate) (4) > operations-cost	tc		
Group relevant when: if(index(<pre><= 15,selected(\${F8}, index()),selected(\${F8}, '7777'))</pre>			
cg_quantity (required)	What quantity/amount of (Chemicals (salts, potassium permanganate)) did you use in last			
<u>5</u>	production season/cycle?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity			
cg_unit (required)	Unit for quantity of (Chemicals (salts, potassium permanganate)) used		1	1kg
•	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit			20kg
			3	50kg
		\vdash		
		\vdash		Litre(s)
		\square	5	Bulk purchase in GHS (One time paym
		Ш	6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
			777	Other (specify)
cg_unit_i (required)	Please specify unit			· · · · · · · · · · · · · · · · · · ·
og_um_1 [/64u//64/	. loade openly unit			

cg_cost (required) What is the cost per unit (GHS/unit) of (Chemicals (salts, potassium permanganate)) used?	
--	--

	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and					
Field	enterstrict cost here	Δn	swer			
cg_totalcost	GHC [totalvc_cage]	All	SWEI			
cg_totalcost	Total cost of Chemicals (salts, potassium permanganate) (GHS)					
Consented > Active > Tilania farm cost	of production > Cage Culture > Drugs (antibiotics, etc.) (5)	(Re	neate	ed group)		
		(110	pour	sa group)		
	Consented > Active > Tilapia farm cost of production > Cage Culture > Drugs (antibiotics, etc.) (5) > operations-costc Group relevant when: if(index() <= 15, selected(\${F8}, index()), selected(\${F8}, '.777'))					
cg_quantity <i>(required)</i>	What quantity/amount of (Drugs (antibiotics, etc.)) did you use in last production season/cycle?					
og_quantity (roquirou)	If item was purchased in bulk without a defined unit, enter 1 for Quantity					
cg_unit (required)	Unit for quantity of (Drugs (antibiotics, etc.)) used		1	1kg		
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg		
			3	50kg		
				Litre(s)		
			5	Bulk purchase in GHS (One time payment)		
			6	Piece(s)		
			7	Gallon(s)		
			8	Gram(s)		
			777	Other (specify)		
cg_unit_i (required)	Please specify unit					
eg_uriic_i (required)	Question relevant when: selected(\${cg_unit}, '777')					
	, , , ,					
cg_cost <i>(required)</i>	What is the cost per unit (GHS/unit) of (Drugs (antibiotics, etc.)) used?					
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here					
cg_totalcost	GHC [totalvc_cage]					
-9_1012	Total cost of Drugs (antibiotics, etc.) (GHS)					
Consented > Active > Tilapia farm cost	of production > Cage Culture > Hormones (6)	(Re	peate	ed group)		
Consented > Active > Tilapia farm co	st of production > Cage Culture > Hormones (6) > operations-costc					
	15,selected(\${F8}, index()),selected(\${F8}, '777'))					
cg_quantity <i>(required)</i>	What quantity/amount of (Hormones) did you use in last production season/cycle? If item was purchased in bulk without a defined unit, enter 1 for Quantity					
cg_unit (required)	Unit for quantity of (Hormones) used		1	1kg		
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg		
			3	50kg		
				Litre(s)		
				Bulk purchase in GHS (One time payment)		
			6	Piece(s)		
			7	Gallon(s)		
			8	Gram(s)		
			777	Other (specify)		
cg_unit_i <i>(required)</i>	Please specify unit					
-9	Question relevant when: selected(\${cg_unit} , '777')					
cg_cost (required)	What is the cost per unit (GHS/unit) of (Hormones) used?					
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here					
cg_totalcost	GHC [totalvc_cage]					
	Total cost of Hormones (GHS)					
Consented > Active > Tilapia farm cost	of production > Cage Culture > Vaccines (7)	(Re	peate	ed group)		
Consented > Active > Tilapia farm co	st of production > Cage Culture > Vaccines (7) > operations-costc					
Group relevant when: if(index() <=	15,selected(\${F8} ,index()),selected(\${F8} ,'777'))					
cg_quantity (required)	What quantity/amount of (Vaccines) did you use in last production season/cycle? If item was purchased in bulk without a defined unit, enter 1 for Quantity					
cg_unit <i>(required)</i>	Unit for quantity of (Vaccines) used		1	1kg		
, , ,	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit			20kg		
			3	50kg		
			4	Litre(s)		
			5	Bulk purchase in GHS (One time payment)		
			6	Piece(s)		
			7	Gallon(s)		
			8	Gram(s)		
				Other (specify)		
on unit i (roquire d)	Please specify unit			от. ороспу)		
cg_unit_i <i>(required)</i>	Please specify unit Question relevant when: selected(\${cg_unit}, '777')					
cg_cost (required)	What is the cost per unit (GHS/unit) of (Vaccines) used?					
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and					
	enter total cost here					

cg_totalcost	GHC [totalvc_cage]	

Consented > Active > Tilapia farm cos	மி µeலlion on > Cage Culture > Fuel (8)	(And	ana saga	ed group)
Consented > Active > Tilapia farm co	ost of production > Cage Culture > Fuel (8) > operations-costc			
Group relevant when: if(index() <=	: 15,selected(\${F8} ,index()),selected(\${F8} ,'777'))			
cg_quantity (required)	What quantity/amount of (Fuel) did you use in last production season/cycle?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity			
cg_unit (required)	Unit for quantity of (Fuel) used		1	1kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
			3	50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time payme
			6	Piece(s)
				Gallon(s)
			8	Gram(s)
		Н		Other (specify)
an unit i (naguinad)	Diagon anguifu unit		111	Other (specify)
cg_unit_i (required)	Please specify unit			
	Question relevant when: selected(\${cg_unit}, '777')			
cg_cost <i>(required)</i>	What is the cost per unit (GHS/unit) of (Fuel) used?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here			
cg_totalcost	GHC [totalvc_cage]			
	Total cost of Fuel (GHS)			
Consented > Active > Tilapia farm cos	t of production > Cage Culture > Transportation cost (aside fuel cost) (9)	(Re	peate	ed group)
Consented > Active > Tilapia farm co	ost of production > Cage Culture > Transportation cost (aside fuel cost) (9) > operations-costc			
Group relevant when: if(index() <=	15,selected(\${F8}, index()),selected(\${F8}, '777'))			
cg_quantity (required)	What quantity/amount of (Transportation cost (aside fuel cost)) did you use in last production			
	season/cycle?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity			
cg_unit <i>(required)</i>	Unit for quantity of (Transportation cost (aside fuel cost)) used		1	1kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
			3	50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time paym
			6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
				Other (specify)
cg_unit_i <i>(required)</i>	Please specify unit			
eg_unic_i (<i>requireu)</i>	Question relevant when: selected(\${cg_unit}, '777')			
ca cost (required)	What is the cost per unit (GHS/unit) of (Transportation cost (aside fuel cost)) used?			
cg_cost (required)	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and			
	enter total cost here			
cg_totalcost	GHC [totalvc_cage]			
	Total cost of Transportation cost (aside fuel cost) (GHS)			
	t of production > Cage Culture > Electricity (e.g. cold storage) (10)	(Re	peate	ed group)
Consented > Active > Tilapia farm co	ost of production > Cage Culture > Electricity (e.g. cold storage) (10) > operations-costc			
Group relevant when: if(index() <=	: 15,selected(\${F8} ,index()),selected(\${F8} ,'777'))			
cg_quantity <i>(required)</i>	What quantity/amount of (Electricity (e.g. cold storage)) did you use in last production			
	season/cycle?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity			
cg_unit <i>(required)</i>	Unit for quantity of (Electricity (e.g. cold storage)) used If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit	<u> </u>		1kg
	т пот тоо рагоназва т рак типов: а ивтей ини, впист т юг Quantity, Select bulk purchase 10r Unit			20kg
			3	50kg
		L	4	Litre(s)
			5	Bulk purchase in GHS (One time paym
			6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
				Other (specify)
cg_unit_i <i>(required)</i>	Please specify unit			,
-0 (royaoo/	Question relevant when: selected(\${cg_unit}, '777')			
cg_cost (required)	What is the cost per unit (GHS/unit) of (Electricity (e.g. cold storage)) used?			
og_cost (<i>required)</i>	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and			
	, , , , , , , , , , , , , , , , , , ,			

cg_totalcost	GHC [totalvc_cage]	
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	7.11.11.11.11.11.11.11.11.11.11.11.11.11			
Field Consented Actions Tilenia forms and	Total cost of Electricity (e.g. cold storage) (GHS)	Ame	N.V.OF	and arranged
·	dQuestiction > Cage Culture > Disinfectants (11)	(MB	peste	ed group)
Consented > Active > Tilapia farm co	st of production > Cage Culture > Disinfectants (11) > operations-costc			
Group relevant when: if(index() <=	15,selected(\${F8} ,index()),selected(\${F8} ,'777'))			
cg_quantity (required)	What quantity/amount of (Disinfectants) did you use in last production season/cycle?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity			
cg_unit (required)	Unit for quantity of (Disinfectants) used		1	1kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit			20kg
				50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time payment)
			6	Piece(s)
			7	Gallon(s)
				Gram(s)
				, , ,
			///	Other (specify)
cg_unit_i (required)	Please specify unit			
	Question relevant when: selected(\${cg_unit} , '777')			
cg_cost (required)	What is the cost per unit (GHS/unit) of (Disinfectants) used?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and			
	enter total cost here			
cg_totalcost	GHC [totalvc_cage]			
	Total cost of Disinfectants (GHS)			
Consented > Active > Tilapia farm cost	of production > Cage Culture > New anchor to re-position cage (items purchased aside labor) (12)	(Re	peate	ed group)
Consented > Active > Tilapia farm co	st of production > Cage Culture > New anchor to re-position cage (items purchased aside labor) (12)	> op	erati	ons-costc
Group relevant when: if(index() <=	15,selected(\${F8},index()),selected(\${F8},'777'))			
cg_quantity (required)	What quantity/amount of (New anchor to re-position cage (items purchased aside labor)) did			
eg_quantity (required)				
	you use in last production season/cycle?			
on unit (required)	If item was purchased in bulk without a defined unit, enter 1 for Quantity Unit for quantity of (New anchor to re-position cage (items purchased aside labor)) used		4	4lon
cg_unit <i>(required)</i>				1kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
			3	50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time payment)
				Piece(s)
			7	Gallon(s)
			8	Gram(s)
			777	Other (specify)
cg_unit_i <i>(required)</i>	Please specify unit			
3= = (, , ,	Question relevant when: selected(\${cg_unit} , '777')			
cg_cost (required)	What is the cost per unit (GHS/unit) of (New anchor to re-position cage (items purchased aside			
	labor)) used?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here			
cg_totalcost	GHC [totalvc_cage]			
cg_totalcost	Total cost of New anchor to re-position cage (items purchased aside labor) (GHS)			
Consented > Active > Tilania farm cost	of production > Cage Culture > Items purchased for pond Mending of nets (items purchased aside	(Re	neate	ed group)
·	or production - dage dutate - Roma paralased for para monding or note (Roma paralased aside	(110	pout	sa group)
labor cost) (13)				
Consented > Active > Tilapia farm co	ost of production > Cage Culture > Items purchased for pond Mending of nets (items purchased aside	labo	r cos	st) (13) > operations-costc
Group relevant when: if(index() <=	15,selected(\${F8} ,index()),selected(\${F8} ,'777'))			
cg_quantity (required)	What quantity/amount of (Items purchased for pond Mending of nets (items purchased aside			
	labor cost)) did you use in last production season/cycle?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity			
cg_unit (required)	Unit for quantity of (Items purchased for pond Mending of nets (items purchased aside labor		1	1kg
	cost)) used		2	20kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit			
			3	
			4	Litre(s)
			5	Bulk purchase in GHS (One time payment)
			6	Piece(s)
			7	Gallon(s)
				Gram(s)
			/77	Other (specify)
cg_unit_i <i>(required)</i>	Please specify unit			
	Question relevant when: selected(\${cg_unit} , '777')			

cg_cost (required)

019	aquaculture_nousenoid_survey_labor_printable (2).nit		
d	purchased aside labor cost)) used? Pues was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here	Answ	ver
cg_totalcost	GHC [totalvc_cage]		
	Total cost of Items purchased for pond Mending of nets (items purchased aside labor cost) (GHS)		
Consented > Active > Filapia far (14)	rm cost of production > Cage Culture > Re-fabricating galvanized pipes (items purchased aside labor cost)	(Repe	eated group)
Consented > Active > Tilapia t	farm cost of production > Cage Culture > Re-fabricating galvanized pipes (items purchased aside labor cos	st) (14) >	operations-costc
Group relevant when: if(inde	ex() <= 15,selected(\${F8} ,index()),selected(\${F8} ,'777'))		
cg_quantity (required)	What quantity/amount of (Re-fabricating galvanized pipes (items purchased aside labor cost))		
5=1 7,1 7	did you use in last production season/cycle?		
	If item was purchased in bulk without a defined unit, enter 1 for Quantity		
cg_unit (required)	Unit for quantity of (Re-fabricating galvanized pipes (items purchased aside labor cost)) used		1 1kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2 20kg
			3 50kg
			-
			4 Litre(s)
			5 Bulk purchase in GHS (One time paym
			6 Piece(s)
			7 Gallon(s)
			8 Gram(s)
		7	77 Other (specify)
cg_unit_i (required)	Please specify unit		
	Question relevant when: selected(\${cg_unit}, '777')		
cg_cost (required)	What is the cost per unit (GHS/unit) of (Re-fabricating galvanized pipes (items purchased		
3 <u>9</u> _3331 (19 34 33)	aside labor cost)) used?		
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here		
cg_totalcost	GHC [totalvc_cage]		
	Total cost of Re-fabricating galvanized pipes (items purchased aside labor cost) (GHS)		
Consented > Active > Tilapia far	m cost of production > Cage Culture > Replacement of worn-out barrels (15)	(Repe	eated group)
Consented > Active > Tilapia t	farm cost of production > Cage Culture > Replacement of worn-out barrels (15) > operations-costc		
Group relevant when: if(inde	ex() <= 15,selected(\${F8} ,index()),selected(\${F8} ,'777'))		
cg_quantity (required)	What quantity/amount of (Replacement of worn-out barrels) did you use in last production		
	season/cycle?		
	If item was purchased in bulk without a defined unit, enter 1 for Quantity		
cg_unit (required)	Unit for quantity of (Replacement of worn-out barrels) used		1 1kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2 20kg
			3 50kg
			4 Litre(s)
			5 Bulk purchase in GHS (One time paym
			6 Piece(s)
			, ,
			7 Gallon(s)
			8 Gram(s)
		7	77 Other (specify)
cg_unit_i (required)	Please specify unit		
	Question relevant when: selected(\${cg_unit}, '777')		
cg_cost (required)	What is the cost per unit (GHS/unit) of (Replacement of worn-out barrels) used?		
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here		
cg_totalcost	GHC [totalvc_cage]		
	Total cost of Replacement of worn-out barrels (GHS)		
	rm cost of production > Cage Culture > [cagevc_name] (16)	(Repe	eated group)
Consented > Active > Tilapia f	farm cost of production > Cage Culture > [cagevc_name] (16) > operations-costc		
Group relevant when: if(inde	ex() <= 15,selected(\${F8}, index()),selected(\${F8}, '777'))		
cg_quantity (required)	What quantity/amount of ([cagevc_name]) did you use in last production season/cycle?		
	If item was purchased in bulk without a defined unit, enter 1 for Quantity		

cg_unit (required) Unit for quantity of ([cagevc_name]) used 1 1kg		cg_unit (required)			1 1kg
--	--	--------------------	--	--	-------

	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
Field	Question	An	swer 3	ZUNY
			3	
			4	Litre(s)
			5	Bulk purchase in GHS (One time payment)
			6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
			-	Other (specify)
			111	Other (specify)
cg_unit_i <i>(required)</i>	Please specify unit Question relevant when: selected(\${cg_unit}, '777')			
cg_cost (required)	What is the cost per unit (GHS/unit) of ([cagevc_name]) used?			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here			
cg_totalcost	GHC [totalvc_cage] Total cost of [cagevc_name] (GHS)			
Consented > Active > Tilapia farm cost	of production > Cage Culture > Vaccines, drugs, antibiotics, other chemicals			
Group relevant when: selected(\${F8}	?} , '5') or selected(\${F8} , '7')			
E37i <i>(required)</i>	What is the source of vaccines, drugs, antibiotics and other chemicals used on your farm?		1	Agro-input dealer shop
	, , ,			FC extension agent
			3	Hatchery
			4	Colleague farmers
			5	MoFA extension agents
			6	Market
			7	Own farm
			777	Other (please specify)
E37ii (required)	Places and other charges of vaccines, drugs, antihistics and other chamicals used an your form		1	outer (preded openity)
ESTII (required)	Please specify the source of vaccines, drugs, antibiotics and other chemicals used on your farm Question relevant when: selected(\${E37i}, '777')			
E38i (required)	What is the distance from the nearest source of vaccines, drugs, antibiotics and other chemicals to			
	your farm? Enter 999 if don't know			
E38ii (required)	Unit of distance		1 K	m
Loon (roganos)	Question relevant when: \${E38i} > 0 and \${E38i} != 999			
	Question relevant when, \$\psi_{\text{LOOI}} > 0 and \$\psi_{\text{LOOI}} := 333		2 N	
			3 N	finutes (walk)
			4 N	leters
E39i (required)	What is your perception on quality of vaccines, drugs, antibiotics, and other chemicals used on		1 V	ery good
	your farm?		2 G	Good
			3 S	omewhat good
				lot good
		Н	-	•
E40i <i>(required)</i>	What is your perception of availability of vaccines, drugs, antibiotics and other chemicals used on		1 V	ery good
	your farm?		2 G	Good
			3 S	omewhat good
			4 N	lot good
E41i <i>(required)</i>	What is your perception on affordability of vaccines, drugs, antibiotics and other chemicals used on		-	ery good
L4 II (required)				
	your farm?		2 G	Good
			3 S	omewhat good
			4 N	lot good
Consented > Active > Tilapia farm cost of	f production > Pond Culture			
Group relevant when: selected(\${nC} ,	'2') or selected(\${nC} , '3')			
F13 (required)	Are the costs given for largest pond or all operational ponds?		1 la	argest pond only
1 10 (10441100)	The the costs given for largest porta of all operational portage.		-	
		-	Оа	Il operational ponds
Consented > Active > Tilapia farm cost	of production > Pond Culture > Pond fixed costs of production			
F14a <i>(required)</i>	Please do you have the following land and building items?		4	None
	Response constrained to: if(selected(. , '4'), count-selected(.) =1, count-selected(.) >=1)		1	Land
			-	Warehouse [for equipment and feed]
				Offices and on-site housing facilities
			111	Other (specify)
F14a_i <i>(required)</i>	Please specify land and building item Question relevant when: selected(\${F14a}, '777')			
Consented > Active > Tilania farm co	ist of production > Pond Culture > Pond fixed costs of production > Land and building costs (1)	(R	eneate	ed group)
Group relevant when: not(selected		(. p 0011	5

Group relevant when: if(ind	lex() <=3, selected(\${F14a} , index()), selected(\${F14a} , '777'))	And	214/0-	
F17a (required)	Question Cost of purchase or rental/lease of (Land) (GHS)	Ans	swer	
	Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999	_		
F19a <i>(required)</i>	Please specify the number of years this cost applies to (Land)			
	(life span of the equipment or asset or length of lease/rental/permit) sr/e,g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
	0.5]			
	Question relevant when: \${F17a} !=999			
Consented > Active > Tilapia fa	rm cost of production > Pond Culture > Pond fixed costs of production > Land and building costs (2)	(Re	peat	ed group)
Group relevant when: not(se	lected(\${F14a} , '4'))			
Consented > Active > Tilapia	farm cost of production > Pond Culture > Pond fixed costs of production > Land and building costs (2) > la	and-bu	uildin	gp
Group relevant when: if(ind	lex() <=3, selected(\${F14a} , index()), selected(\${F14a} , '777'))			
F17a (required)	Cost of purchase or rental/lease of (Warehouse [for equipment and feed]) (GHS)			
	Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999			
F19a <i>(required)</i>	Please specify the number of years this cost applies to (Warehouse [for equipment and feed])			
	(life span of the equipment or asset or length of lease/rental/permit) sr/e,e,, if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
	0.5]			
	Question relevant when: \${F17a} !=999			
Consented > Active > Tilapia fa	rm cost of production > Pond Culture > Pond fixed costs of production > Land and building costs (3)	(Re	peat	ed group)
Group relevant when: not(se	lected(\${F14a} , '4'))			
Consented > Active > Tilapia	farm cost of production > Pond Culture > Pond fixed costs of production > Land and building costs (3) > la	ınd-bı	uildin	gp
Group relevant when: if(ind	lex() <=3, selected(\${F14a} , index()), selected(\${F14a} , '777'))			
F17a (required)	Cost of purchase or rental/lease of (Offices and on-site housing facilities) (GHS)			
	Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999	-		
F19a <i>(required)</i>	Please specify the number of years this cost applies to (Offices and on-site housing facilities)			
	(life span of the equipment or asset or length of lease/rental/permit) sr/e,g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
	0.5]			
	Question relevant when: \${F17a} !=999			
Consented > Active > Tilapia fa	rm cost of production > Pond Culture > Pond fixed costs of production > Land and building costs (4)	(Re	peat	ed group)
Group relevant when: not(se	lected(\${F14a} , '4'))			
Consented > Active > Tilapia	farm cost of production > Pond Culture > Pond fixed costs of production > Land and building costs (4) > la	ınd-bı	uildin	gp
Group relevant when: if(ind	lex() <=3, selected(\${F14a} , index()), selected(\${F14a} , '777'))			
F17a (required)	Cost of purchase or rental/lease of ([pland-building_name]) (GHS)			
	Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
E192 (required)		-		
F19a <i>(required)</i>	Please specify the number of years this cost applies to ([pland-building_name]) (life span of the equipment or asset or length of lease/rental/permit) // if ifespan of warehouse built			
	is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in			
	0.5]			
	Question relevant when: \${F17a} !=999			
			1 Y	es
F20a (required)	Did you incur site evaluation and selection cost?	-		
		-	0 N	lo
F21a (required)	What is the cost of site evaluation and selection (GHC)?	-	0 N	lo
	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know	-	0 N	lo
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1')	-		
	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items?	-	7	None
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1')	-	7	None Construction and installation of fish por
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable	-	7 1 2	None Construction and installation of fish por Water system [water inlet and outlet/m
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable	-	7 1 2 3	None Construction and installation of fish por Water system [water inlet and outlet/me] Plumbing/pipping system
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable	-	7 1 2 3 4	None Construction and installation of fish por Water system [water inlet and outlet/m Plumbing/pipping system Pumps
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable	-	7 1 2 3	None Construction and installation of fish por Water system [water inlet and outlet/me] Plumbing/pipping system
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable	-	7 1 2 3 4	None Construction and installation of fish por Water system [water inlet and outlet/m Plumbing/pipping system Pumps
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable	-	7 1 2 3 4 5	None Construction and installation of fish por Water system [water inlet and outlet/m Plumbing/pipping system Pumps Aerators
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable		7 1 2 3 4 5	None Construction and installation of fish por Water system [water inlet and outlet/m Plumbing/pipping system Pumps Aerators Protective gears [life jackets, scoop ne
F21a <i>(required)</i>	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable		7 1 2 3 4 5	None Construction and installation of fish por Water system [water inlet and outlet/m Plumbing/pipping system Pumps Aerators Protective gears [life jackets, scoop ne etc.]
F21a (required) F14b (required)	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable Response constrained to: if(selected(., '7'), count-selected(.) =1, count-selected(.) >=1)		7 1 2 3 4 5	None Construction and installation of fish por Water system [water inlet and outlet/m Plumbing/pipping system Pumps Aerators Protective gears [life jackets, scoop ne etc.]
F14b (required) F14b_i (required)	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable Response constrained to: if(selected(., '7'), count-selected(.) =1, count-selected(.) >=1) Specify pond construction item		7 1 2 3 4 5 6	None Construction and installation of fish por Water system [water inlet and outlet/m Plumbing/pipping system Pumps Aerators Protective gears [life jackets, scoop ne etc.]
F14b (required) F14b_i (required)	What is the cost of site evaluation and selection (GHC)? Enter 999 if don't know Question relevant when: selected(\${F20a}, '1') Please do you have the following pond construction items? Please select all applicable Response constrained to: if(selected(., '7'), count-selected(.) =1, count-selected(.) >=1) Specify pond construction item Question relevant when: selected(\${F14b}, '777') rm cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (1)		7 1 2 3 4 5 6	None Construction and installation of fish por Water system [water inlet and outlet/m Plumbing/pipping system Pumps Aerators Protective gears [life jackets, scoop ne etc.] Other (specify)

F17b (required) Cost of purchase or rental/lease of (Construction and installation of fish pond) (GHS)
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	Enter 999 and proceed if don't know Quastionse constrained to: (.>=1 and .<=500000) or .=999	Answer
E10h (required)		VIISMAI
F19b <i>(required)</i>	Please specify the number of years this cost applies to (Construction and installation of fish pond) (life span of the equipment or asset or length of lease/rental/permit) < br/> filespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in	
	0.5] Question relevant when: \${F17b} !=999	
Consented > Active > Tilapia farm	cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (2)	(Repeated group)
Group relevant when: not(select	ed(\${F14b} , '7'))	
Consented > Active > Tilapia far	m cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (2) > c	onstructionp
Group relevant when: if(index() <=6, selected(\${F14b} , index()), selected(\${F14b} , '777'))	
F17b (required)	Cost of purchase or rental/lease of (Water system [water inlet and outlet/monk]) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999	
F19b (required)	Please specify the number of years this cost applies to (Water system [water inlet and	
i isu (requireu)	outlet/monk]) ((life span of the equipment or asset or length of lease/rental/permit)>br/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]	
Occasional and Author to Tilenia forms	Question relevant when: \${F17b}!=999	(December of process)
Consented > Active > Tilapia farm Group relevant when: not(select	cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (3) ed(\${F14b}, 7"))	(Repeated group)
Consented > Active > Tilapia fan	m cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (3) > c	onstructionp
Group relevant when: if(index() <=6, selected(\${F14b} , index()), selected(\${F14b} , '777'))	
F17b (required)	Cost of purchase or rental/lease of (Plumbing/pipping system) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999	
F19b <i>(required)</i>	Please specify the number of years this cost applies to (Plumbing/pipping system) (life span of the equipment or asset or length of lease/rental/permit)-br/>fe.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17b} !=999	
Consented > Active > Tilapia farm	cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (4)	(Repeated group)
Group relevant when: not(select	ed(\${F14b} , '7'))	
Consented > Active > Tilapia far	m cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (4) > c	onstructionp
Group relevant when: if(index() <=6, selected(\${F14b} , index()), selected(\${F14b} , '777'))	
F17b (required)	Cost of purchase or rental/lease of (Pumps) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999	
F19b <i>(required)</i>	Please specify the number of years this cost applies to (Pumps) (life span of the equipment or asset or length of lease/rental/permit) // if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17b} !=999	
Consented > Active > Tilapia farm	cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (5)	(Repeated group)
Group relevant when: not(select		
	n cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (5) > c	onstructionp
) <=6, selected(\${F14b} , index()), selected(\${F14b} , '777'))	
F17b (required)	Cost of purchase or rental/lease of (Aerators) (GHS) Enter 999 and proceed if don't know	
	Response constrained to: (.>=1 and .<=500000) or .=999	
F19b <i>(required)</i>	Please specify the number of years this cost applies to (Aerators) (Ilife span of the equipment or asset or length of lease/rental/permit/ sbr/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]	
	Question relevant when: \${F17b} !=999	
	cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (6)	(Repeated group)
Group relevant when: not(select		
	m cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (6) > c 0 <=6, selected(\${F14b}, index()), selected(\${F14b}, '777'))	onstructionp
F17b (required)	Cost of purchase or rental/lease of (Protective gears [life jackets, scoop nets etc.]) (GHS)	

	F19b (required)	Please specify the number of years this cost applies to (Protective gears [life jackets, scoop	
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	nets etc.]) AUSSTIR 9f the equipment or asset or length of lease/rental/permit/sbr/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]	An	swei	r
	Question relevant when: \${F17b} !=999			
Consented > Active > Tilap	pia farm cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (7)	(Re	epeat	red group)
Group relevant when: no	pt(selected(\${F14b} , '7'))			
Consented > Active > Til	apia farm cost of production > Pond Culture > Pond fixed costs of production > pond construction costs (7) > c	onstr	uctio	np
Group relevant when:	if(index() <=6, selected(\${F14b} , index()), selected(\${F14b} , '777'))			
F17b (required)	Cost of purchase or rental/lease of ([pondconstruction_name]) (GHS) Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999			
F19b <i>(required)</i>	Please specify the number of years this cost applies to ([pondconstruction_name]) (Illie span of the equipment or asset or length of lease/rental/permit/>br/>[e.g., if Illiespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17b} !=999			
F14c (required)	Please do you have the following machinery, equipment?		7	None
, , ,	Please select all applicable		1	Generator
	Response constrained to: if(selected(., '7'), count-selected(.) =1, count-selected(.) >=1)	Н	2	Ice making machine
		Н		-
			3	Cold storage or cold chain
			4	Deep freezer
			5	Water quality equipment [including oxy
				meter]
			6	Security/monitoring equipment [CCTV
				camera, lights etc.]
			777	Other (specify)
F14c_i (required)	Specify machinery and equipment item			
	Question relevant when: selected(\${F14c} , '777')			
Consented > Active > Tilar	pia farm cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs	(Re	eneat	red group)
Consented > Active > Til	ot(selected(\${F14c} , '7')) Iapia farm cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment cost if(index() <=6, selected(\${F14c} , index()), selected(\${F14c} , '777'))	rs (1)	> ma	ach-equipp
F17c <i>(required)</i>	Cost of purchase or rental/lease of (Generator) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
F19c <i>(required)</i>	Please specify the number of years this cost applies to (Generator) (life span of the equipment or asset or length of lease/rental/permit) is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17c} !=999			
Consented > Active > Tilar	pia farm cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs	(Re	epeat	red group)
(2)	ot(selected(\${F14c} , '7'))	,		
	lapia farm cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment cost	s (2)	> ma	ach-equipp
	if(index() <=6, selected(\${F14c} , index()), selected(\${F14c} , '777'))	(-/		
F17c (required)	Cost of purchase or rental/lease of (Ice making machine) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
F19c <i>(required)</i>	Please specify the number of years this cost applies to (Ice making machine) (life span of the equipment or asset or length of lease/rental/permit/s/r/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17c} !=999			
(3)	pia farm cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs of production (\$\(\frac{1}{4} \) (7'))	(Re	epeat	ed group)
Consented > Active > Ti	lapia farm cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment cost	s (3)	> ma	ach-equipp
Group relevant when:	if(index() <=6, selected(\${F14c} , index()), selected(\${F14c} , '777'))			
F17c (required)	Cost of purchase or rental/lease of (Cold storage or cold chain) (GHS) Enter 999 and proceed if don't know			
	Response constrained to: (.>=1 and .<=500000) or .=999			
F19c <i>(required)</i>	Please specify the number of years this cost applies to (Cold storage or cold chain) (life span of the equipment or asset or length of lease/rental/permit) / le g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]			
	Question relevant when: \${F17c} !=999			

Consented > Active > Tilapia farm cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs (Re	epeated group
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Field	(4) Group relevant when: not(selected)	Question (Sir 145, 77))	Answe	er	
		cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs <=6, selected(\${F14c}, index()), selected(\${F14c}, '777'))	s (4) > m	ach-equipp	
	Croup relevant when. II(IIIdex()				
	F17c <i>(required)</i>	Cost of purchase or rental/lease of (Deep freezer) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
	E10a (raquirad)				
	F19c <i>(required)</i>	Please specify the number of years this cost applies to (Deep freezer) (life span of the equipment or asset or length of lease/rental/permit) is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \$\frac{9}{F17c}\$ =999			
	Occasional & Action & Titorio forms		/D	at all maxima	
	(5) Group relevant when: not(selected)	ost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs of (\$\\$(\\$\{F14c\}, '7')\)	(Repea	ated group)	
		cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs	(5) > m	ach-equipp	
			7 (0) - 111	ador equipp	
		<=6, selected(\${F14c} , index()), selected(\${F14c} , '777'))			
	F17c <i>(required)</i>	Cost of purchase or rental/lease of (Water quality equipment [including oxygen meter]) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
	F19c (required)	Please specify the number of years this cost applies to (Water quality equipment [including			
	. Too (requires)	oxygen meter]) (life span of the equipment or asset or length of lease/rental/permit) is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \$\{F17C\} !=999			
	Consented > Active > Tilapia farm co (6) Group relevant when: not(selected)	ost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs of (\$\(\frac{8}{F14c} \), \(\frac{7}{1} \))	(Repea	ated group)	
	Consented > Active > Tilania farm	cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs	: (6) > m	ach-equipp	
		<=6, selected(\${F14c} , index()), selected(\${F14c} , '777'))	(-)		
	F17c <i>(required)</i>	Cost of purchase or rental/lease of (Security/monitoring equipment [CCTV camera, lights etc.]) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
	F19c <i>(required)</i>	Please specify the number of years this cost applies to (Security/monitoring equipment [CCTV			
	. Too progenitory	camera, lights etc.]) (Ille span of the equipment or asset or length of lease/rental/permit) is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17c} !=999			
	(7)	ost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs	(Repea	ated group)	
	Group relevant when: not(selected	1(\${F14c}, '7'))			
		cost of production > Pond Culture > Pond fixed costs of production > machinery and equipment costs	s (7) > m	ach-equipp	
	Group relevant when: if(index()	<=6, selected(\${F14c} , index()), selected(\${F14c} , '777'))			
	F17c <i>(required)</i>	Cost of purchase or rental/lease of ([pmach-equip_name]) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
	F19c (required)	Please specify the number of years this cost applies to ([pmach-equip_name])			
	i iso (regunea)	(life span of the equipment or asset or length of lease/rental/permit)>br/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]			
		Question relevant when: \${F17c}!=999			
		Please do you have the following permits?	4	None	
		Please select all applicable Possesses constrained to: if(colorted('4') count colorted() =1, count colorted() >=1)	1	Environmental permit	
	F14d (required)	Response constrained to: if(selected(. , '4'), count-selected(.) =1, count-selected(.) >=1)	2	Operational permit from FC	
			3	District assembly permit	
			77	7 Other (please specify)	
	E11d i (required)	Specify permit	.,,	(p.1130 opoon)	
	F14d_i <i>(required)</i>	Specify permit Question relevant when: selected(\${F14d}, '777')			
	Consented > Active > Tilapia farm co	ost of production > Pond Culture > Pond fixed costs of production > permits costs (1) of (\${F14d}, '4'))	(Repea	ated group)	
		cost of production > Pond Culture > Pond fixed costs of production > permits costs (1) > permitsp <=3, selected(\${F14d}, index()), selected(\${F14d}, '777'))			
	F15d <i>(required)</i>	Did respondent show you any proof/document for (Environmental permit)?	1	Yes	
	ou poquirou)				
			0	No	

F17d (required)	Cost of purchase or rental/lease of (Environmental permit) (GHS)	

	Enter 999 and proceed if don't know Quastionse constrained to: (.>=1 and .<=500000) or .=999	Ans	wer	
F19d (required)	Please specify the number of years this cost applies to (Environmental permit)	, 1116		
i 19u (<i>regulieu)</i>	(life span of the equipment or years this cost applies to Lethironmental permit) (life span of the equipment or asset or length of lease/rental/permit)-br/> is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]			
	Question relevant when: \${F17d} !=999			
	arm cost of production > Pond Culture > Pond fixed costs of production > permits costs (2)	(Re	peate	ed group)
Group relevant when: not(se				
	a farm cost of production > Pond Culture > Pond fixed costs of production > permits costs (2) > permitsp			
	dex() <=3, selected(\${F14d} , index()), selected(\${F14d} , '777'))			
F15d (required)	Did respondent show you any proof/document for (Operational permit from FC)?		1 Y	
		Ш	0 N	0
F17d <i>(required)</i>	Cost of purchase or rental/lease of (Operational permit from FC) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
F19d <i>(required)</i>	Please specify the number of years this cost applies to (Operational permit from FC) (life span of the equipment or asset or length of lease/rental/permit) is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17d} !=999			
Consented > Active > Tilapia f	arm cost of production > Pond Culture > Pond fixed costs of production > permits costs (3)	(Re	peate	ed group)
Group relevant when: not(se		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 5 - 77/
	a farm cost of production > Pond Culture > Pond fixed costs of production > permits costs (3) > permitsp			
	dex() <=3, selected(\${F14d} , index()), selected(\${F14d} , '777'))			
F15d (required)	Did respondent show you any proof/document for (District assembly permit)?		1 Y	es
			0 N	
F17d (required)	Cost of purchase or rental/lease of (District assembly permit) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
F19d (required)	Please specify the number of years this cost applies to (District assembly permit)			
Concepted > Astive > Tilevie 4	(life span of the equipment or asset or length of lease/rental/permit/str/=[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17d} !=999	(Da		d even)
Group relevant when: not(se	arm cost of production > Pond Culture > Pond fixed costs of production > permits costs (4) elected(\$(F14d) . '4'))	(Re	реак	ed group)
	a farm cost of production > Pond Culture > Pond fixed costs of production > permits costs (4) > permitsp			
	dex() <=3, selected(\${F14d} , index()), selected(\${F14d} , '777'))			
F15d (required)	Did respondent show you any proof/document for ([ppermits_name])?		1 Y	es
	2		0 N	
F17d (required)	Cost of purchase or rental/lease of ([ppermits_name]) (GHS)			
a (roquirou)	Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999			
F19d (required)	Please specify the number of years this cost applies to ([ppermits_name])			
	(life span of the equipment or asset or length of lease/rental/permit) br/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17d} !=999			
F14e (required)	Please do you have the following other tools?		4	None
	Please select all applicable		1	Pelleting machine
	Response constrained to: if(selected(., '4'), count-selected(.) =1, count-selected(.) >=1)		2	Vehicles
			3	Incubator or incubation system
			777	Other (specify)
F14e_i <i>(required)</i>	Specify other tool Question relevant when: selected(\${F14e}, '777')			
Consented > Active > Tilapia f	arm cost of production > Pond Culture > Pond fixed costs of production > other tools costs (1)	(Re	peate	ed group)
Group relevant when: not(se	elected(\${F14e} , '4'))			
Consented > Active > Tilapia	a farm cost of production > Pond Culture > Pond fixed costs of production > other tools costs (1) > othertool	sp		
	dex() <=3, selected(\${F14e} , index()), selected(\${F14e} , '777'))			
F17e (required)	Cost of purchase or rental/lease of (Pelleting machine) (GHS)			

F19e (required) Please specify the number of years this cost applies to (Pelleting machine)

19	aquaculture_household_survey_labor_printable (2).ht	mı			
	(life span of the equipment or asset or length of lease/rental/permit) \(\text{br}\) \(\text{fe}\) span of the equipment or asset or length of lease/rental/permit) \(\text{br}\) \(\text{br}\) \(\text{fe}\) if lend lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]	Ansv	wer		
	Question relevant when: \${F17e} !=999				
Consented > Active > Tilapia fa	arm cost of production > Pond Culture > Pond fixed costs of production > other tools costs (2)	(Rep	eate	d group)	
Group relevant when: not(se	elected(\${F14e} , '4'))				
Consented > Active > Tilapia	a farm cost of production > Pond Culture > Pond fixed costs of production > other tools costs (2) > othertool	olsp			
Group relevant when: if(in	dex() <=3, selected(\${F14e} , index()), selected(\${F14e} , '777'))				
F17e (required)	Cost of purchase or rental/lease of (Vehicles) (GHS)				
	Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999				
E10o (required)					
F19e <i>(required)</i>	Please specify the number of years this cost applies to (Vehicles) ((life span of the equipment or asset or length of lease/rental/permit/ is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17e}!=999				
Consented > Active > Tilania f	arm cost of production > Pond Culture > Pond fixed costs of production > other tools costs (3)	(Ren	noate	d group)	
Group relevant when: not(se		(I/ep	calc	a group)	
	a farm cost of production > Pond Culture > Pond fixed costs of production > other tools costs (3) > othertoc	olen			
	dex() <=3, selected(\${F14e} , index()), selected(\${F14e} , '777'))	лэр			
F17e (required)	Cost of purchase or rental/lease of (Incubator or incubation system) (GHS)				
i ire (required)	Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999				
F19e <i>(required)</i>	Please specify the number of years this cost applies to (Incubator or incubation system) (life span of the equipment or asset or length of lease/rental/permit) / Fig. 6, if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]				
	Question relevant when: \${F17e}!=999		(Repeated group)		
	arm cost of production > Pond Culture > Pond fixed costs of production > other tools costs (4)	(Rep			
Group relevant when: not(se					
	a farm cost of production > Pond Culture > Pond fixed costs of production > other tools costs (4) > othertoc	olsp			
	dex() <=3, selected(\${F14e} , index()), selected(\${F14e} , '777'))				
F17e <i>(required)</i>	Cost of purchase or rental/lease of ([pothertools_name]) (GHS) Enter 999 and proceed if don't know Response constrained to: (.>=1 and .<=500000) or .=999				
F19e <i>(required)</i>	Please specify the number of years this cost applies to ([pothertools_name]) (ilife span of the equipment or asset or length of lease/rental/permit/sbr/>[e.g., if lifespan of warehouse built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5] Question relevant when: \${F17e} !=999				
F19 (required)	Are the costs given for largest pond or all operational ponds?		1 la	rgest pond only	
		(0 al	l operational ponds	
F20 (required)	Please did you purchase or use any of the following items last season (5-6 months)?		1	Fingerlings	
				Feed	
			3	Lime for pond	
			4	Fertilizer for pond	
			5	Drugs (antibiotics, etc.)	
				Hormones	
			7	Vaccines	
				Fuel	
				Transportation cost (aside from fuel)	
		H		Electricity (e.g., cold storage)	
				Disinfectants	
				Items purchased for pond maintenance	
				Other (specify)	
F20i <i>(required)</i>	Please specify the item you purchase or use last season	,		canor (opcony)	
1 201 (16441164)	Please specify the item you purchase or use last season Question relevant when: selected(\${F20}, '777')				
Consented > Active > Tilapia fari	m cost of production > Pond Culture > Fingerlings (1)	(Rep	eate	d group)	
Consented > Active > Tilapia fa	arm cost of production > Pond Culture > Fingerlings (1) > operationcostp				
Group relevant when: if(inde	ex() <=12, selected(\${F20} , index()), selected(\${F20} , '777'))				
pd_quantity (required)	What quantity of (Fingerlings) did you use in last production season/cycle?				
	If item was purchased in bulk without a defined unit, enter 1 for Quantity				

pd_unit <i>(required)</i> Unit for quantity of (Fingerlings) used 1 1 1kg	pd_unit (required) Unit for quantity of (Fingerlings) used		1	1kg
---	--	--	---	-----

019	aquaculture_household_survey_labor_printable (2).ht	ml		
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
	Question	An	swer 3	50kg
				Litre(s)
			5	Bulk purchase in GHS (One time payme
			6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
				Other (specify)
pd_uniti <i>(required)</i>	Please specify quantity unit for (Fingerlings)			7/
pa_ama (requirea)	Question relevant when: selected(\${pd_unit} , '777')			
nd post (required)				
pd_cost <i>(required)</i>	What is the cost per unit (GHS/unit) of (Fingerlings) you used If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here			
pd_totalcost	GHC [totalvc_pond] Total cost of Fingerlings (GHS)			
Consented > Active > Tilapia farm c	ost of production > Pond Culture > Feed (2)	(Re	peat	ed group)
	cost of production > Pond Culture > Feed (2) > operationcostp	,	•	3 1,
	<=12, selected(\${F20} , index()), selected(\${F20} , '777'))			
pd_quantity (required)	What quantity of (Feed) did you use in last production season/cycle?			
pa_quantity (noquines)	If item was purchased in bulk without a defined unit, enter 1 for Quantity			
pd_unit (required)	Unit for quantity of (Feed) used		1	1kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
				50kg
				Litre(s)
		H		Bulk purchase in GHS (One time payme
		-		
		-		Piece(s)
		H	7	Gallon(s)
			8	Gram(s)
			777	Other (specify)
pd_uniti <i>(required)</i>	Please specify quantity unit for (Feed)			
	Question relevant when: selected(\${pd_unit} , '777')			
pd_cost <i>(required)</i>	What is the cost per unit (GHS/unit) of (Feed) you used If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here			
pd_totalcost	GHC [totalvc_pond] Total cost of Feed (GHS)			
Consented > Active > Tilapia farm c	ost of production > Pond Culture > Lime for pond (3)	(Re	peat	ed group)
Consented > Active > Tilapia farm	cost of production > Pond Culture > Lime for pond (3) > operationcostp			
	<=12, selected(\${F20} , index()), selected(\${F20} , '777'))			
pd_quantity (required)	What quantity of (Lime for pond) did you use in last production season/cycle?			
1-1-1-1-1-1	If item was purchased in bulk without a defined unit, enter 1 for Quantity			
pd_unit (required)	Unit for quantity of (Lime for pond) used		1	1kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
			3	50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time payme
		H		
		-	6	Piece(s)
		-	7	Gallon(s)
		-	8	Gram(s)
			/77	Other (specify)
pd_uniti <i>(required)</i>	Please specify quantity unit for (Lime for pond) Question relevant when: selected(\${pd_unit}, '777')			
pd_cost (required)	What is the cost per unit (GHS/unit) of (Lime for pond) you used If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here			
pd_totalcost	GHC [totalvc_pond] Total cost of Lime for pond (GHS)			
Consented > Active > Tilapia farm c	ost of production > Pond Culture > Fertilizer for pond (4)	(Re	peat	ed group)
	cost of production > Pond Culture > Fertilizer for pond (4) > operationcostp	-		
Group relevant when: if(index()	<=12, selected(\${F20}, index()), selected(\${F20}, '777'))			
pd_quantity <i>(required)</i>	What quantity of (Fertilizer for pond) did you use in last production season/cycle? If item was purchased in bulk without a defined unit, enter 1 for Quantity			

pd_unit (required)	Unit for quantity of (Fertilizer for pond) used	1	1kg

	item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit uestion	Ans	2	20kg
Qu Qu	uestion	Ans		
			3	50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time payme
			6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
			777	Other (specify)
pd_uniti (required) Ple	ease specify quantity unit for (Fertilizer for pond)			
	Question relevant when: selected(\${pd_unit}, '777')			
	hat is the cost per unit (GHS/unit) of (Fertilizer for pond) you used			
If ite	item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and iter total cost here			
	HC [totalvc_pond]			
	production > Pond Culture > Drugs (antibiotics, etc.) (5)	(Re	peate	ed group)
	of production > Pond Culture > Drugs (antibiotics, etc.) (5) > operationcostp	,		5 .,
	selected(\${F20} , index()), selected(\${F20} , '777'))			
	hat quantity of (Drugs (antibiotics, etc.)) did you use in last production season/cycle?			
1 = 1	item was purchased in bulk without a defined unit, enter 1 for Quantity			
pd_unit <i>(required)</i> Uni	nit for quantity of (Drugs (antibiotics, etc.)) used		1	1kg
If ite	item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
				50kg
				Litre(s)
				Bulk purchase in GHS (One time payme
		Н		
				Piece(s)
		Н	7	Gallon(s)
		Н	8	Gram(s)
			777	Other (specify)
	ease specify quantity unit for (Drugs (antibiotics, etc.))			
	Question relevant when: selected(\${pd_unit}, '777')			
If ite	hat is the cost per unit (GHS/unit) of (Drugs (antibiotics, etc.)) you used item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and other total cost here			
pd_totalcost GH	HC [totalvc_pond] otal cost of Drugs (antibiotics, etc.) (GHS)			
Consented > Active > Tilapia farm cost of pi		(Re	neate	ed group)
	of production > Pond Culture > Hormones (6) > operationcostp	(pour	34 g. 54p)
'	selected(\${F20} , index()), selected(\${F20} , '777'))			
	hat quantity of (Hormones) did you use in last production season/cycle?			
If ita	item was purchased in bulk without a defined unit, enter 1 for Quantity			
pd_unit (required) Uni	nit for quantity of (Hormones) used		1	1kg
If ite	item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
			3	50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time payme
			6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
				Other (specify)
pd_uniti <i>(required)</i> Ple	ease specify quantity unit for (Hormones)			
, , , , ,	ease specify quantity unit for (Hormones) Question relevant when: selected(\${pd_unit} , '777')			
pd_cost (required) Wh	hat is the cost per unit (GHS/unit) of (Hormones) you used item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and			
pd_totalcost GH	tler total cost here HC [totalvc_pond] tal cost of Hormones (GHS)			
Consented > Active > Tilapia farm cost of pi		(Re	peate	ed group)
	of production > Pond Culture > Vaccines (7) > operationcostp	,, ,,	,, , , , , ,	··· • ··· · · · · · · · · · · · · · · ·
	selected(\${F20}, index()), selected(\${F20}, '777'))			
pd_quantity <i>(required)</i> Wh	hat quantity of (Vaccines) did you use in last production season/cycle?			
I# I#	item was purchased in bulk without a defined unit, enter 1 for Quantity			

pd_unit (required)	Unit for quantity of (Vaccines) used	1	1kg

	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
Field	Question	Ans	wer 3	50kg
			4	Litre(s)
				Bulk purchase in GHS (One time payment)
		\vdash		
		\vdash	6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
			777	Other (specify)
pd_uniti (required)	Please specify quantity unit for (Vaccines)			
	Question relevant when: selected(\${pd_unit} , '777')			
pd_cost (required)	What is the cost per unit (GHS/unit) of (Vaccines) you used			
pu_cost (required)	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and			
	enter total cost here			
pd_totalcost	GHC [totalvc_pond]			
	Total cost of Vaccines (GHS)			
Consented > Active > Tilapia farm cost	of production > Pond Culture > Fuel (8)	(Rep	peate	ed group)
Consented > Active > Tilapia farm co	st of production > Pond Culture > Fuel (8) > operationcostp			
Group relevant when: if(index() <=	12, selected(\${F20} , index()), selected(\${F20} , '777'))			
pd_quantity (required)	What quantity of (Fuel) did you use in last production season/cycle?			
h==4======	If item was purchased in bulk without a defined unit, enter 1 for Quantity			
pd_unit (required)	Unit for quantity of (Fuel) used		1	1kg
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit		2	20kg
		\vdash		
		\vdash		50kg
			4	Litre(s)
			5	Bulk purchase in GHS (One time payment)
			6	Piece(s)
			7	Gallon(s)
			8	Gram(s)
			777	Other (specify)
pd_uniti (required)	Please specify quantity unit for (Fuel)			(
pa_ariiti (<i>requirea)</i>				
	Question relevant when: selected(\${pd_unit}, '777')			
pd_cost (required)	What is the cost per unit (GHS/unit) of (Fuel) you used			
	If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and enter total cost here			
pd_totalcost	GHC [totalvc_pond]			
pa_totalood	Total cost of Fuel (GHS)			
Consented > Active > Tilapia farm cost of	f production > Vaccines, drugs, antibiotics, other chemicals			
Group relevant when: (selected(\${F20	'} , '5') or selected(\${F20} , '7')) and selected(\${nC} , '2')			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	What is the source of vaccines, drugs, antibiotics and other chemicals used on your farm?		1	Agro-input dealer shop
	What is the source of vaccines, drags, antibiotics and other chemicals accurately our farm.	\vdash		
		Н		FC extension agent
E37zi <i>(required)</i>			3	Hatchery
			4	Colleague farmers
			5	MoFA extension agents
			6	Market
			7	Own farm
			777	Other (please specify)
E37zii (roquirod)	Please specify the source of vaccines, drugs, antibiotics and other chemicals used on your farm			
E37zii <i>(required)</i>				
	Question relevant when: selected(\${E37zi}, '777')			
E38zi <i>(required)</i>	What is the distance from the nearest source of vaccines, drugs, antibiotics and other chemicals to			
	your farm?			
	Enter 999 if don't know			
E38zii <i>(required)</i>	Unit of distance	-	1 K	
	Question relevant when: (\${E38zi} > 0) and (\${E38zi} != 999)		2 N	liles
			3 N	linutes (walk)
			4 N	leters
E39zi <i>(required)</i>	What is your perception on quality of vaccines, drugs, antibiotics, and other chemicals used on		1 V	ery good
	your farm?	-	-	Good
	•		-	
			_	omewhat good
			_	lot good
E40zi <i>(required)</i>	What is your perception of availability of vaccines, drugs, antibiotics and other chemicals used on		1 V	ery good
	your farm?		2 G	ood
			3 S	omewhat good
			_	lot good
				-

E41zi (required) What is your perception on affordability of vaccines, drugs, antibiotics and other chemicals used on		1 Very good
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Field	your farm? Question	Δn	2 (swei	Good
Tiold	QUOUNT	/ (11)	3 8	Somewhat good
			4 1	Not good
Consented > Active > Tilapia farm cost o	f production > Tilapia fingerling production			
Group relevant when: selected(\${C16}	3 , '1')			
hatchery_fixedcost_intro (required)	What is the dimension of your tilapia hatchery?			
hatchery_unit (required)	Unit for hatchery dimension		1 F	Feet/foot
			2 1	Meters
			3 (Centimeters
			4 \	/ard
Consented > Active > Tilania farm cost	of production > Tilapia fingerling production > Hatchery Fixed Costs			
F25a <i>(required)</i>	Please do you have or have undertaken the following hatchery construction items/activities?		1	Construction and installation of pond
1 250 (required)	Theade do you have of have andertaken the following hatchery constitution hemoratumes.			· · · · · · · · · · · · · · · · · · ·
				Water system [water inlet and outlet/work]
				Plumbing/pipping system
				Pumps
			5	Aerators
			6	Protective gears [life jackets, scoop nets etc.]
			7	Incubator or incubation system
			777	Other (please specify)
F25ai <i>(required)</i>	Please specify the hatchery construction activity			
. =	Question relevant when: selected(\${F25a}, '777')			
Consented > Active > Tilapia farm co	sst of production > Tilapia fingerling production > Hatchery Fixed Costs > hatchery construction (1)	(Re	peat	ed group)
	cost of production > Tilapia fingerling production > Hatchery Fixed Costs > hatchery construction (1) <=7, selected(\${F25a}, index()), selected(\${F25a}, '777'))	> hat	cher	y-const
F28a (required)	Cost of purchase or rental/lease of (Construction and installation of pond) (GHS)			
F29a (required)	Please specify if the cost given for (Construction and installation of pond) is for this hatchery or		1	Only 1 hatchery
. Zou (roganou)	all hatchery operations or including grow-out			All hatcheries
	an nationary operations of moleculing grow out			
				All hatcheries + grow-out
			///	Other (specify)
F29ai <i>(required)</i> F30a <i>(required)</i>	Please specify the number of hatcheries the cost given for (Construction and installation of pond) covers Question relevant when: selected(\${F29a}, '777') Please specify the number of years this cost applies to (Construction and installation of pond) (life span of the equipment or asset or length of lease/rental/permit) by/>[e.g., if lifespan of warehouse built			
	time span of the equipment of asset of length of lease tental perinting on the span of the length of waterloase built is 10 years, type in 10; if land lease is for 20 years, type in 20; if permit is for 6 months renewal, type in 0.5]			
F30 (required)	Now I will ask you about inputs used, quantity used and prices for the tilapia hatchery.		1	Full year 2018
	Will you like to provide the input data for the period (which is more convenient for you)?		2	Monthly
			3	Spawning season/cycle
				Other (specify)
F30i <i>(required)</i>	Please specify			
F31 <i>(required)</i>	Question relevant when: selected(\${F30}, '777') Do you purchase or use any of the following items within the period ([F30_name])?		4	Dreadstack
131 (required)	bo you purchase of use any of the following items within the period ([i 30_name]):		1	Broodstock
			2	Feed
			3	Fertilizer for pond
			4	Drugs (antibiotics, etc.)
			5	Hormones
			6	Vaccines
			7	Fuel
			8	Transportation cost (aside from fuel)
			9	Permits; District assembly fee (yearly)
			10	Electricity (e.g., cold storage)
			11	Disinfectants
			12	Items purchased for hatchery maintenance
			777	Other (please specify)
F31i <i>(required)</i>	Please specify item			
	Question relevant when: selected(\${F31}, '777')			
Consented > Active > Tilapia farm cost	of production > Tilapia fingerling production > Broodstock (1)	(Re	peat	ed group)
	ost of production > Tilapia fingerling production > Broodstock (1) > operations-costh			
	12, selected(\${F31} , index()), selected(\${F31} , '777'))			

ht_quantity (required)	What quantity of (Broodstock) is used per ([F30_name])	
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d I	ht unit (required)	If item was purchased in bulk without a defined unit, enter 1 for Quantity ONESSIGNACTION OF (Proceeds took) used	Δn	SWER	1kg
u i	ht_unit <i>(required)</i>	QNESTIMENTALLY OF (Broodstock) used If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit	All		-
		If nerth was purchased in bulk without a defined drift, effect 1 for Quantity, select bulk purchase for office		2	20kg
				3	50kg
				4	Litre(s)
				5	Bulk purchase in GHS (One time paym
			\vdash		
				6	Piece(s)
				7	Gallon(s)
				8	Gram(s)
				777	Other (specify)
			-		other (opeony)
ı	ht_unit_i <i>(required)</i>	Please specify unit			
		Question relevant when: selected(\${ht_unit}, '777')			
ŀ	ht_cost (required)	What is the cost per unit (GHS/unit) of (Broodstock) used per ([F30_name])			
		If item was purchased in bulk without a defined unit, enter 1 for Quantity, select bulk purchase for Unit and			
		enter total cost here			
ŀ	ht_totalcost	GHC [totalvc_hatchery]			
		Total cost of (Broodstock) (GHS)			
Cons	sented > Active > Tilapia fa	rm cost of production > Tilapia fingerling production > Hormones for hatchery			
Gı	roup relevant when: selecte	od(\${F31}: '5')			
				,	A must insert also - Lorente
E3	37j <i>(required)</i>	What is the source of Hormones for your hatchery?		1	Agro-input dealer shop
				2	FC extension agent
				3	Hatchery
			-	4	Colleague farmers
				5	MoFA extension agents
				6	Market
				7	Own farm
			-		
				777	Other (please specify)
E3	37ji <i>(required)</i>	Please specify the source of hormones for your farm			
		Question relevant when: selected(\${E37j}, '777')			
			-		
		What is the distance from the nearest source of Hormones?			
		Enter 999 if don't know			
E3	38j <i>(required)</i>				
	38ji <i>(required)</i>	Unit of distance		a 12	·
ES	ooji (<i>required)</i>		-	1 K	
		Question relevant when: \${E38j} > 0 and \${E38j} !=999		2 N	Miles
				3 N	finutes (walk)
					Meters
			-	4 10	vietei S
E3	39j <i>(required)</i>	What is your perception on quality of Hormones you use on your farm?		1 V	/ery good
				2 0	Good
				3 5	Somewhat good
			-		
				4 N	lot good
E4	10j <i>(required)</i>	What is your perception on availability of Hormones you use on your farm?		1 V	/ery good
	•				Good
			-		
				3 S	Somewhat good
				4 N	lot good
□ 4	11j <i>(required)</i>	What is your perception of affordability of Hormones you use on your farm?		1 1	/ery good
Ľ4	ing (roquirou)	Thiat is your perception or anorthability or Hollifolies you use on your failin:	-		
				2 0	Good
				3 8	Somewhat good
					Not good
				-T 15	9000
Consent	red > Active > HOUSEHOLE) SIZE			
G0 <i>(re</i>	equired)	In which of the following year groups do your household members fall?		1 0	- 5 yrs
		select all that applies		2 6	5 - 17 yrs
			-		
				3 1	8 - 30 yrs
				4 3	1 - 35 yrs
				5 3	66 - 50 yrs
				б 5	1 - 65 yrs
				7 >	65 yrs
Conse	ented > Active > HOUSEHO	LD SIZE > 0 - 5 yrs (1)	(Re	epeat	ed group)
			(1.00	Poal	g. vap/
Male	e (required)	How many members of your household within the ages (0 - 5 yrs) are MALE?			
		Question relevant when: selected(\${G0} , \${G0_id})			
Fem	ale <i>(required)</i>	How many members of your household within the ages (0 - 5 yrs) are FEMALE?			
	(- y				
1 0111		Question relevant when: selected(\${G0} , \${G0_id})			

Femalet Tot: Totalall Total	uestion tal Male = 0 otal Female = 0	Ans	wer	
Femalet Tot: Totalall Total				
Totalall Total				
	otal household size = 0			
Fb_3 (required)			4 1/	
	ease Can you remember the amount and cost of labor for your fish farm during your last full		-	es, I can remember
'	oduction cycle?	'	0 N	o, I can't remember
	Question relevant when: selected(\${A01}, '4')			
Consented > Active > Labour	ar coloated/ \$(A.0.1) (21) ar coloated/ \$(IDb. 2) (41)			
	or selected(\${A01}, '2') or selected(\${Pb_3}, '1')			
	AMILY LABOUR (including respondent)			
	d you use (free) family labor for your tilapia ponds (or cages) in your most recent full production	-	1 Ye	
	ason/cycle?	_	0 N	
	n which of the following activities did you use communal or family labor during the last full			None
'	oduction cycle? ention each activity to the respond and select if yes			Stocking
	Question relevant when: selected(\${G2a}, '1')		2	Fertilization
	Response constrained to: if(selected(., '11'), count-selected(.) =1, count-selected(.) >=1)		3	Feeding, application of
				drugs/hormones/chemicals
			4	Harvesting
			5	Post-harvest [e.g. packaging, de-gutting,
				transporting, marketing, selling]
			6	Pond maintenance [e.g. cleaning inlet and
				outlet, water management, removal of
				weeds from pond etc.]
			7	Cage maintenance [e.g. new anchor to re-
				position cage, sewing/mending of nets, re-
				fabricating galvanized pipes, replacement of
			_	worn-out barrels, etc.]
			8	Hatchery maintenance [e.g. cleaning inlet
			_	and outlet, water management, etc.]
				Diving
				Security
			777	Other (specify)
	ease specify activity for which you used family or communal labor Question relevant when: selected(\${G3a}, '777')			
G3b (required) Did	d you use the following family labor?		1 Y	ounger men (=< 35 years of age)
6	Question relevant when: selected(\${G2a}, '1') and not(selected(\${G3a}, '11'))		2 0	lder men (> 35 years of age)
			3 Y	ounger women (=< 35 years of age)
			4 0	lder women (> 35 years of age)
Consented > Active > Labour > FAMILY LABO	BOUR			
Group relevant when: selected(\${G2a} , '1',	17)			
Consented > Active > Labour > FAMILY LA	ABOUR > Stocking (1)	(Rep	eate	ed group)
Consented > Active > Labour > FAMILY L	LABOUR > Stocking (1) > family-labor			
Group relevant when: if(index() <=10, s	selected(\${G3a} , index()), selected(\${G3a} , '777'))			
	ow many Younger Men (=< 35 yrs of age) worked on (Stocking) for the entire cycle? other 999 if don't know			
6	Question relevant when: selected(\${G3b}, '1')			
	ow many Older Men (> 35 yrs of age) worked on (Stocking) for the entire cycle?			
	nter 999 if don't know			
	Question relevant when: selected(\${G3b}, '2')			
	ow many Younger Women (=< 35 yrs of age) worked on (Stocking) for the entire cycle? onter 999 if don't know			
	Question relevant when: selected(\${G3b}, '3')			
	ow many Older Women (>35 yrs of age) worked on (Stocking) for the entire cycle?			
	nter 999 if don't know			
6	Question relevant when: selected(\${G3b}, '4')			
	ow many Hours Younger Men (=< 35 yrs of age) work on (Stocking) per day?			
	different hours, enter average hours worked by all			
	Question relevant when: \${Younger_men} > 0 and \${Younger_men} !=999			
	ow many day(s) did Younger Men (=< 35 yrs) take to complete (Stocking) for the entire cycle?			
	Question relevant when: \${Younger_men} > 0 and \${Younger_men} !=999			
	ow many Hours did Older Men (> 35 yrs of age) worked on (Stocking) per day? different hours, enter average hours worked by all			
	Question relevant when: \${Older_men} > 0 and \${Older_men} !=999			

	aquaculture_nouserioid_survey_labor_printable (2).11	
Field days older man (required)	Question How many day(s) did Older Men (> 35 yrs of age) take to complete (Stocking) for the entire	Answer
days_older_men (required)		
	cycle? Question relevant when: \${Older_men} > 0 and \${Older_men} !=999	
hrs younger women (required)	How many hours did Younger women (=< 35 yrs of age) work on (Stocking) per day?	
ms_younger_women (required)	If different hours, enter average hours worked by all	
	Question relevant when: \${Younger_women} > 0 and \${Younger_women} !=999	
days_younger_women (required)	How many day(s) did Younger women (=< 35 yrs of age) take to complete (Stocking) for the	
	entire cycle?	
	Question relevant when: \${Younger_women} > 0 and \${Younger_women} !=999	
hrs_older_women (required)	How many hours did Older women (> 35 yrs of age) work on (Stocking) per day	
	If different hours, enter average hours worked by all	
	Question relevant when: \${Older_women} > 0 and \${Older_women} !=999	
days_older_women (required)	How many day(s) did Older women (> 35 yrs of age) take to complete (Stocking) for the entire	
	cycle?	
	Question relevant when: \${Older_women} > 0 and \${Older_women} !=999	
hiredlabor_intro	HIRED LABOUR	
G7 (required)	Did you use hired labor or had any staff/employee for your tilapia farming or hatchery during the	1 Yes
	last full production cycle?	0 No
Consented > Active > Labour > HIRED I	ABOUR	
Group relevant when: selected(\${G7}	, 11)	
G9 (required)	Do your farm have permanent employees for the following activities	1 Management
	select all that applies (you can select none only)	2 Finance
	Response constrained to: if(selected(., '5'), count-selected(.) =1, count-selected(.) >=1)	3 Administrative/secretarial
		4 Aquaculture/hatchery operations
		5 None
040 (1)		
G12 <i>(required)</i>	Which of the following permanent employees do you have? If multiple, select all	1 MALE
	Question relevant when: not(selected(\${G9}, '5'))	0 FEMALE
Consented > Active > Labour > HIRED		(Repeated group)
	9} , '1') or selected(\${G9} , '2') or selected(\${G9} , '3') or selected(\${G9} , '4')	(repeated group)
G10 (required)	What is the total number of MALE permanent employees for (Management)	
CTO (required)	Enter 999 if don't know	
	Question relevant when: selected(\${G9}, \${G9_id}) and selected(\${G12}, '1')	
	Response constrained to: (.>=0 and .<=100) or .=999	
G10a (required)	How many of the permanent (Management) employees are Younger Men (=< 35 year of age)	
	If don't know ages and cannot separate based on age cut-off, skip the breakdown; Enter 999]	
	Question relevant when: \${G10} !=999 and \${G10} > 0	
	Response constrained to: (.>=0 and .<=100) or .=999	
G10b (required)	How many of the permanent (Management) employees are Older Men (> 35 years of age)	
	If don't know ages and cannot separate based on age cut-off, skip the breakdown; Enter 999]	
	Question relevant when: \${G10} !=999 and \${G10} > 0	
	Response constrained to: (.>=0 and .<=100) or .=999	
G11 (required)	What is the total number of FEMALE permanent employees for (Management)	
	Enter 999 if don't know	
	Question relevant when: selected(\${G9} , \${G9_id}) and selected(\${G12} , '0') Response constrained to: (.>=0 and .<=100) or .=999	
Odda (na milita di		
G11a <i>(required)</i>	How many of the permanent (Management) employees are Younger women (=< 35 years of	
	age) If don't know ages and cannot separate based on age cut-off, skip the breakdown; Enter 999]	
	Question relevant when: \${G11} !=999 and \${G11} > 0	
	Response constrained to: (.>=0 and .<=100) or .=999	
G11b (required)	How many of the permanent (Management) employees are Older women (> 35 year of age)	
* A.m 4A	If don't know ages and cannot separate based on age cut-off, skip the breakdown; Enter 999]	
	Question relevant when: \${G11} !=999 and \${G11} > 0	
	Response constrained to: (.>=0 and .<=100) or .=999	
G11c (required)	What is the average monthly/weekly salary to (Management) staff (GHC)?	
	Enter 999 if don't know	
	Question relevant when: not(selected(\${G9}, '5'))	
G11ci (required)	Specify if monthly or weekly	1 Monthly

Field G16 (required)		Question In addition to the management/admin/finance staff you just reported, did you employ ADDITIONAL	An	swer	None
		hired labor for any of the following activities?		1	Stocking
		Response constrained to: if(selected(., '11'), count-selected(.) =1, count-selected(.) >=1)		2	Fertilization
				3	Feeding, application of
				J	drugs/hormones/chemicals
				4	Harvesting
				5	Post-harvest [e.g. packaging, de-gutting,
				3	transporting, marketing, selling
				6	Pond maintenance [e.g. cleaning inlet and
				0	outlet, water management, removal of
					weeds from pond etc.]
				7	Cage maintenance [e.g. new anchor to re
				'	position cage, sewing/mending of nets, re
					fabricating galvanized pipes, replacement
					worn-out barrels, etc.]
				8	Hatchery maintenance [e.g. cleaning inlet
					and outlet, water management, etc.]
				9	Diving
					Security
C16: (magazina d)		Discoo angoify activity for which you are level third labor		111	Other (specify)
G16i <i>(required)</i>		Please specify activity for which you employed hired labor Overston relevant when; selected (\$/G16\) '777'			
		Question relevant when: selected(\${G16}, '777')		، ار	(
		Did you use the following hired labor			ounger men (=< 35 years of age)
		Question relevant when: not(selected(\${G16}, '11'))			Older men (> 35 years of age)
G17 (required)					ounger women (=< 35 years of age)
					Older women (> 35 years of age)
Consented > Active	> Labour > HIRED	LABOUR > Stocking (1)	(Re	epeat	ed group)
Group relevant wh	hen: not(selected(\$	\${G16} , '11'))			
Consented > Activ		D LABOUR > Stocking (1) > hired-labor			
	ve > Labour > HIRE				
	ve > Labour > HIRE when: if(index() <=	ED LABOUR > Stocking (1) > hired-labor			
Group relevant	ve > Labour > HIRE when: if(index() <=	ED LABOUR > Stocking (1) > hired-labor 11, selected(\${G16}, index()), selected(\${G16}, '777')) How many Younger Men (=< 35 year of age) worked on (Stocking) for the entire cycle (as hired labor)?			
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019		aquaculture_nousenoid_survey_labor_printable (2).n			
d	days_hYounger_men <i>(required)</i>	Question How many day(s) did Younger Men (=< 35 yrs of age) take to complete (Stocking) for the entire	Ans	swer	
		cycle?			
		Question relevant when: \${hYounger_men} > 0 and \${hYounger_men} !=999			
	days_hOlder_men (required)	How many day(s) did Older Men (> 35 yrs of age) take to complete (Stocking) for the entire			
		cycle?			
		Question relevant when: \${hOlder_men} > 0 and \${hOlder_men} !=999			
	days_hYounger_women (required)	How many day(s) did Younger women (=< 35 yrs of age) take to complete (Stocking) for the			
		entire cycle?			
		Question relevant when: \${hYounger_women} > 0 and \${hYounger_women} !=999			
	days_hOlder_women (required)	How many day(s) did Older women (> 35 yrs of age) take to complete (Stocking) for the entire			
		cycle?			
		Question relevant when: \${hOlder_women} > 0			
		ED LABOUR > Stocking (1) > Wage rate per activity			
	G20 <i>(required)</i>	What is the wage rate for (Stocking)?			
	000- (Question relevant when: selected(\${G16} , \${G16_id})	-		
	G20a (required)	Unit of wage rate Question relevant when: selected(\${G16}, \${G16_id})	-		Per day
		Question relevant when, selected starts, starts in	-		Per hour
			-		Whole activity
			-	4	Whole pond/cage
			-		Per month
			-	///	Other (specify)
	G20ai <i>(required)</i>	Please specify unit for wage rate			
	C21a (required)	Question relevant when: selected(\${G20a}, '777')		4 1	
	G21a <i>(required)</i>	Is the wage rate for (Stocking) the same between male and female Question relevant when: selected(\${G16}, \${G16_id})	-	1 Y	
	0041 / 1 / 1		-	0 N	
	G21b (required)	Is the wage rate for (Stocking) the same between youth and non-youth?	-	1 Y	
		Question relevant when: selected(\${G16} , \${G16_id})	-	0 N	0
	G22 <i>(required)</i>	Male wage rate for (Stocking)			
	COO: (no muino di)	Question relevant when: selected(\${G21a}, '0')			
	G22i <i>(required)</i>	Unit for male wage rate for (Stocking)	-		Per day
		Question relevant when: selected(\${G21a}, '0')	-		Per hour
			-		Whole activity
			-	4	Whole pond/cage
			-		Per month
	C22:: (required)	Diagon appoint unit for male wage rate	-	111	Other (specify)
	G22ii <i>(required)</i>	Please specify unit for male wage rate Question relevant when: selected(\${G22i}, '777')			
	G23 (required)	Female wage rate for (Stocking)			
	(Question relevant when: selected(\${G21a}, '0')			
	G23i (required)	Unit for female wage rate for (Stocking)		1	Per day
		Question relevant when: \${G23} > 0			Per hour
				3	Whole activity
				4	Whole pond/cage
				5	Per month
				777	Other (specify)
	G23ii (required)	Please specify unit for female wage rate			
		Question relevant when: selected(\${G23i}, '777')			
	G24 (required)	What is the Youth wage rate for (Stocking)			
		Question relevant when: selected(\${G21b}, '0')			
	G24i (required)	Unit for Youth wage rate for (Stocking)		1	Per day
		Question relevant when: \${G24} > 0		2	Per hour
				3	Whole activity
				4	Whole pond/cage
				5	Per month
				777	Other (specify)
	G24ii (required)	Please specify unit for youth wage rate			
		Question relevant when: selected(\${G24i} , '777')			
	G25 (required)	Older (> 35 year of age) wage rate for (Stocking)			
		Question relevant when: selected(\${G21b}, '0')			

d G25i <i>(required)</i>	Question Unit for Older wage rate for (Stocking)	An	swei	Per day
G25i (requirea)		-		
	Question relevant when: \${G25} > 0	-	-	Per hour
			3	Whole activity
			4	Whole pond/cage
			5	Per month
			777	Other (specify)
G25ii <i>(required)</i>	Please specify unit for older wage rate Question relevant when: selected(\${G25i}, '777')			
Consented > Active > Labour > F	1 1 1 1			
Group relevant when: not(sele				
· · · · · · · · · · · · · · · · · · ·			4 1	/
E39m (required)	What is your perception on quality of hired labor?	-	-	/ery good
			2 (Good
			3 8	Somewhat good
			4 1	lot good
E40m (required)	What is your perception of availability of hired labor?		1 \	/ery good
			2 (Good
			-	Somewhat good
		-	-	-
		-	-	lot good
E41m (required)	What is your perception of affordability of hired labor?		1 \	ery good
			2 (Good
			3 8	Somewhat good
			4 N	lot good
Pb_4 (required)	Places Can you remember the amount of fish (including the various esterories of fish sizes) you	-	-	•
FD_4 (<i>lequileu)</i>	Please Can you remember the amount of fish (including the various categories of fish sizes) you	-		'es, I can remember
	harvested and sales from your fish farm during your last full production cycle?		1 0	lo, I can't remember
	Question relevant when: selected(\${A01}, '4')			
Consented > Active > Harvest, sales	and prices			
Group relevant when: selected(\${/	A01} , '1') or selected(\${Pb_4} , '1')			
H1 (required)	What categories of fish did you harvest/sell in your most recent full season/cycle?		1	size 4 (1 fishes is almost 1 kg)
			2	size 3 (3 fishes for 2 kg)
				size 2 (2 fishes for 1 kg)
				Size 1 (3 fishes for 1 kg)
		\vdash	4	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			5	Regular (4-5 fishes for 1 kg)
			6	Economy (5-6 fishes for 1 kg)
			7	Small size (6-8 fishes for 1 kg)
			8	School boys (8-10 fishes for 1 kg)
			9	Reject (10-12 fishes for 1 kg)
			10	Mixed sizes
			-	Do not know
		-		
	es and prices > size 4 (1 fishes is almost 1 kg) (1)	(Re	epeat	ed group)
percentage_total_harvest <i>(requir</i>	what percentage of your total harvest is (size 4 (1 fishes is almost 1 kg))? Question relevant when: selected(\${H1}, \${H1_id})			
totalallsizes	Total percentage for all sizes harvested = 0			
	This must add up to 100			
Consented > Active > Harvest, sale	es and prices > size 4 (1 fishes is almost 1 kg) (1)	(Re	epeat	ed group)
H5 (required)	To whom did you sell (size 4 (1 fishes is almost 1 kg))?		1	Aggregator
	Please select all that applies		2	Sales/market outlet
	Question relevant when: selected(\${H1}, \${H1_id2})			Supermarket
			4	Restaurant/schools
		-	-	
			117	other (specify)
H5i <i>(required)</i>	Specify to whom you sold (size 4 (1 fishes is almost 1 kg)) Question relevant when: selected(\${H5}, '777')			
H6 (required)	Who was your main buyer for (size 4 (1 fishes is almost 1 kg))?		1	Aggregator
	Question relevant when: selected(\${H1} , \${H1_id2})		2	Sales/market outlet
			3	Supermarket
		-		
		-	4	Restaurant/schools
			777	other (specify)
H6i <i>(required)</i>	Please specify who your main buyer for (size 4 (1 fishes is almost 1 kg)) is *Question relevant when: selected(\${H6}, '777')			
H7 (required)	How much did you sell (size 4 (1 fishes is almost 1 kg)) to the main buyer (GHS)?			

ield H7i <i>(required)</i>	Question What was the unit of sale of (size 4 (1 fishes is almost 1 kg)) to the main buyer?	Answ	er Pieces
Titi (regained)	Question relevant when: \${H7} > 0		Crate
	Question relevant when the first of		
110 /	MI		Kg
H8 <i>(required)</i>	Who was your second major buyer of (size 4 (1 fishes is almost 1 kg))?		
	Question relevant when: \${num_H5} > 1	2	
		3	Supermarket
		4	Restaurant/schools
		77	other (specify)
H8i <i>(required)</i>	Please specify who your second major buyer of (size 4 (1 fishes is almost 1 kg)) is Question relevant when: selected(\${H8}, '777')		
H9 (required)	How much did you sell (size 4 (1 fishes is almost 1 kg)) to the second buyer (GHS)? Question relevant when: \${num_H5} > 1		
H9i <i>(required)</i>	What is the unit of sale of (size 4 (1 fishes is almost 1 kg)) to the second main buyer?	1	Pieces
rici (regamea)	Question relevant when: \${H9} > 0		
	Question recevant when, \$\psi_1\tag{1.3} \cdot 0		Crates
		3	Kg
H10 (required)	Who sells your products after harvest?	1	Self
		2	Spouse
		3	Other male family members
		2	Other female family members
			Fish dealer
		6	
			77 Other (please specify)
H10i (required)	Plaasa specify who sells after harvest		
H10i <i>(required)</i>	Please specify who sells after harvest Question relevant when: selected(\${H10}, '777')		
H11 (required)	Who determines the prices of your products?		Self
(1042.102)	Do not read, select all that is mentioned		
			1 1 1
		3	
		4	
		77	7 Others (specify)
H11i (required)	Please specify who determines the price of your fish		
	Question relevant when: selected(\${H11}, '777')		
H12 (required)	How are the prices determined?	1	Prevailing market prices
		2	Based on cost of production
		3	Arbitrarily
		77	7 Other (please specify)
H12i (required)	Please specify how prices are determined for your product		
	Question relevant when: selected(\${H12}, '777')		
Consented > Active > Harvest. sal	es and prices > Hatchery or fingerling production		
Group relevant when: selected(
	How many types of fingerlings (in grams) did you sell the last cycle?		
H13 (required)	Thew many types of imgerings (in grains) and you sen the last cycle.		
H13 (required)	[Classification should be based on weight in grams]		
	[Classification should be based on weight in grams] rates and prices > Hatchery or fingerling production > Sizes of fingerlings (1)	(Repe	ated group)
		(Repe	ated group)
Consented > Active > Harvest, s	ales and prices > Hatchery or fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams	(Repe	ated group)
Consented > Active > Harvest, s	what is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm?	(Repe	ated group)
Consented > Active > Harvest, s H14 (required) H15 (required)	what is the size of fingerling #1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100		
Consented > Active > Harvest, s	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings?	1	Minor or small scale farmer within zone
Consented > Active > Harvest, s H14 (required) H15 (required)	what is the size of fingerling #1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100	1 2	Minor or small scale farmer within zone Minor or small-scale farmer outside zone
Consented > Active > Harvest, s H14 (required) H15 (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings?	1	Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers
Consented > Active > Harvest, s H14 (required) H15 (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings?	1 2	Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers
Consented > Active > Harvest, s H14 (required) H15 (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings?	3 3 4	Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers
Consented > Active > Harvest, s H14 (required) H15 (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings?	3 3 4	Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers Large scale farmers
Consented > Active > Harvest, s H14 (required) H15 (required) H16 (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings? If multiple, select all applicable	3 3 4	Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers Large scale farmers
Consented > Active > Harvest, s H14 (required) H15 (required) H16 (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: .<=100 Who were the buyers of your ([H14]) gram(s) fingerlings? If multiple, select all applicable Please specify the buyer of your ([H14]) gram(s) fingerlings	3 3 4	Minor or small scale farmer within zone Minor or small-scale farmer outside zon Medium scale farmers Large scale farmers Other (specify)
Consented > Active > Harvest, s H14 (required) H15 (required) H16 (required) H16i (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings? If multiple, select all applicable Please specify the buyer of your ([H14]) gram(s) fingerlings Question relevant when: selected(\${H16} , '777')	3 2 77	Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers Large scale farmers Other (specify) Minor or small scale farmer within zone
Consented > Active > Harvest, s H14 (required) H15 (required) H16 (required) H16i (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings? If multiple, select all applicable Please specify the buyer of your ([H14]) gram(s) fingerlings Question relevant when: selected(\${H16} , '777')	1 2 3 3 4 4 777	Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers Large scale farmers Other (specify) Minor or small scale farmer within zone Minor or small-scale farmer outside zone
Consented > Active > Harvest, s H14 (required) H15 (required) H16 (required) H16i (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings? If multiple, select all applicable Please specify the buyer of your ([H14]) gram(s) fingerlings Question relevant when: selected(\${H16} , '777')	1 2 3 4 777	Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers Large scale farmers Other (specify) Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers
Consented > Active > Harvest, s H14 (required) H15 (required) H16 (required) H16i (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings? If multiple, select all applicable Please specify the buyer of your ([H14]) gram(s) fingerlings Question relevant when: selected(\${H16} , '777')	777	Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers Large scale farmers Other (specify) Minor or small scale farmer within zone Minor or small-scale farmer outside zone Medium scale farmers Large scale farmers Large scale farmers
Consented > Active > Harvest, s H14 (required) H15 (required) H16 (required) H16 (required) H17 (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: .<=100 Who were the buyers of your ([H14]) gram(s) fingerlings? If multiple, select all applicable Please specify the buyer of your ([H14]) gram(s) fingerlings Question relevant when: selected(\${H16}, '777') Who was the main buyer of your ([H14]) gram(s) fingerlings?	777	Minor or small scale farmer within zone Minor or small-scale farmer outside zor Medium scale farmers Large scale farmers Other (specify) Minor or small scale farmer within zone Minor or small-scale farmer outside zor Medium scale farmers
Consented > Active > Harvest, s H14 (required) H15 (required) H16 (required) H16i (required)	what is the size of fingerling production > Sizes of fingerlings (1) What is the size of fingerling # 1 in grams What percentage of the ([H14]) gram(s) fingerlings did you use in your own grow-out farm? Response constrained to: <=100 Who were the buyers of your ([H14]) gram(s) fingerlings? If multiple, select all applicable Please specify the buyer of your ([H14]) gram(s) fingerlings Question relevant when: selected(\${H16} , '777')	777	Minor or small scale farmer within zone Minor or small-scale farmer outside zor Medium scale farmers Large scale farmers Other (specify) Minor or small scale farmer within zone Minor or small-scale farmer outside zor Medium scale farmers Large scale farmers Large scale farmers

H19 (required)	Question Who was the second main buyer of your ([H14]) gram(s) fingerlings?	An	swer 1	Minor or small scale farmer within zone
	Question relevant when: \${num_cust_fing} > 1		2	Minor or small-scale farmer outside zor
			3	Medium scale farmers
			4	Large scale farmers
				Other (specify)
H19i <i>(required)</i>	Please specify the main buyer of your ([H14]) gram(s) fingerlings			Cuter (epocity)
TTTƏL (TEYAILEA)	Question relevant when: selected(\$(H19), '777')			
H20 (required)				
H20 (required)	At what price did you sell your ([H14]) gram(s) fingerlings to the second main buyer (GHS/g)?			
On a control to Author to Observe in the	Question relevant when: \${num_cust_fing} > 1			
Consented > Active > Shocks in the				
J1 (required)	Did you experience any of the following adverse shocks that affected your fish farming in the past 5		1	Disease causing mortality of fish
	years? Select all applicable		2	Natural disaster (winds, drought/irregul
	Select all аррітсате			rain storms) affecting fish production
			3	Poor water quality
			4	Floods/landslide (due to heavy rains)
			5	Human epidemic/disease
			6	Livestock disease
			7	Devastating crop pest/disease
			8	Death of close family member
			9	Theft
			10	Unusually high prices of inputs
				Unusually low prices of tilapia
				Fire
				None
J1i <i>(required)</i>	Please specify the adverse shock you experienced that affected your fish farming in the past 5		111	Other (please specify)
Consented > Active > Shocks in		(Re	peat	ed group)
Group relevant when: not(sele				
Consented > Active > Shocks				
0	in the past 5 years > Shock (1) > Disease causing mortality of fish			
	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777'))			
Group relevant when: if(inde				2014
	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777'))		2	2015
	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777'))		2	
	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777'))		2	2015
	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777'))		2 3 4	2015 2016
	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777'))		2 3 4 5	2015 2016 2017
	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777'))		2 3 4 5 6	2015 2016 2017 2018
	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777'))		2 3 4 5 6 98	2015 2016 2017 2018 2019
J2 (required)	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777')) Your first year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98	2015 2016 2017 2018 2019 Not applicable
J2 (required)	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777')) Your first year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2	2015 2016 2017 2018 2019 Not applicable 2014
J2 (required)	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777')) Your first year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2	2015 2016 2017 2018 2019 Not applicable 2014 2015
J2 (required)	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777')) Your first year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017
J2 (required)	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777')) Your first year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017
J2 (required)	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777')) Your first year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5 6	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019
J2 (required) J3 (required)	Your first year of experience of (Disease causing mortality of fish) (2014 to present)? Your second year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5 6	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable
J2 (required)	ex() <=12, selected(\${J1}, index()), selected(\${J1}, '777')) Your first year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5 6 98 1 1 2	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable
J2 (required) J3 (required)	Your first year of experience of (Disease causing mortality of fish) (2014 to present)? Your second year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5 6 98 1 2 3 4 5	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable
J2 (required) J3 (required)	Your first year of experience of (Disease causing mortality of fish) (2014 to present)? Your second year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5 6 98 1 2 3 4 5 6	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable
J2 (required) J3 (required)	Your first year of experience of (Disease causing mortality of fish) (2014 to present)? Your second year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5 6 98 1 2 3 4 5 6 3 4 4 5 6 8 8 1 2 4 3 4 4 5 6 8 1 8 1 8 1 2 8 1 8 1 2 8 1 8 1 2 1 2 1	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017
J2 (required) J3 (required)	Your first year of experience of (Disease causing mortality of fish) (2014 to present)? Your second year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5 6 98 1 2 3 4 5 6 98	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018
J2 (required) J3 (required)	Your first year of experience of (Disease causing mortality of fish) (2014 to present)? Your second year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5 6 98 1 2 3 4 5 6 98	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017
J2 (required) J3 (required)	Your first year of experience of (Disease causing mortality of fish) (2014 to present)? Your second year of experience of (Disease causing mortality of fish) (2014 to present)?		2 3 4 5 6 98 1 2 3 4 5 6 98 1 2 3 4 5 6 6 98 1 2 3 4 5 6 6 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019 Not applicable 2014 2015 2016 2017 2018 2019

eld KO 4 (see)	0	Question Did you participate in any of the following activities in the past 12 months	An	swe	T
K2.1 (require	9d) 		1	1	Fingerlings production
		Select all applicable		2	Fingerlings purchase
			L	3	Tilapia culture (production)
			L	4	Tilapia marketing and trading
				5	Crop farming
				6	Other business enterprise (or self
					employment)
				7	Wages and salary earnings
				8	None
				777	Other (specify)
K2.1i (requir	red)	Please specify income generating activity you participated in the past 12 months			
NZ. II (requir	60)	Question relevant when: selected(\${K2.1}, '777')			
Concented	Active > Introhousehold		/De	noot	and group)
		participation and decision making > Inputs to production decisions > Fingerlings production (1)	(RE	pea	red group)
	evant when: not(selected(
		Id participation and decision making > Inputs to production decisions > Fingerlings production (1) > inc	come	-gen	-activity
Group re	elevant when: if(index() <=	=7, selected(\${K2.1} , index()), selected(\${K2.1} , '777'))			
K2.3 <i>(re</i>	quired)	How much input did you have in making decisions about (Fingerlings production)?	L	1	Little to no input in decisions
			L	2	Input into some decisions
				3	Input into most or all decisions
				98	Not applicable/no decision made
K2.6 <i>(re</i>	quired)	How much input did you have in decisions about how to use output or income generated from			Little to no input in decisions
	4	(Fingerlings production)?	Н		Input into some decisions
		Question relevant when: \${K2.1_id} !=2	Н		
		adoction folder mon of all just a	-		Input into most or all decisions
				98	Not applicable/no decision made
K3.1 (required)	9	Does anyone in your household currently have any of the following ITEM(S)?		1 F	Fish pond
		If pond farmer, don't ask, just select (Fish pond)		2 F	ishing boat/canoes for fishing or
				t	ransportation
				3 L	and or facilities used for aquaculture bu
				4 E	Equipment or materials used for aquacu
				t	pusiness
				5 /	Agricultural land
			Н		None
Concented > A	Nativa > Introhousehold no	articipation and decision making > ownership of assets (1) (1)	/Dr		red group)
			(ICE	peai	ed group)
		1}, '1') or selected(\${K3.1}, '2') or selected(\${K3.1}, '3') or selected(\${K3.1}, '4') or selected(
\${K3.1}, '5')					
K3.2 (require	<i>∍a)</i>	Do you own the (Fish pond) yourself?	_		es, solely
		Read out loud the options Question relevant when: selected(\${K3.1}, \${K3.1_id})	L	2	es, jointly
		Quotion to ordine mions obtained white is a filler in a filler in the fi		3	es, solely and jointly
				4 1	No
K3.3a (requi	ired)	Who's name is on the title, registration or other documents of the (Fish pond)?		1	Self
		Question relevant when: selected(\${K3.1}, \${K3.1_id})		2	Spouse (or partner)
					Other household member
			H	4	Government or other institution
			E		Government or other institution
				5	Clan (Group of relatives)
				5 98	Clan (Group of relatives) Not applicable
K3.4a <i>(requi</i>	red)	Who would you say is the FIRST person who can decide whether to sell, purchase, give away,		5 98	Clan (Group of relatives)
K3.4a <i>(requi</i>	ired)	mortgage or rent the (Fish pond) most of the time?		5 98 1	Clan (Group of relatives) Not applicable
K3.4a <i>(requi</i>	ired)	mortgage or rent the (Fish pond) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST		5 98 1 2	Clan (Group of relatives) Not applicable Self
K3.4a <i>(requi</i>	'red)	mortgage or rent the (Fish pond) most of the time?		5 98 1 2 3	Clan (Group of relatives) Not applicable Self Spouse (or partner)
K3.4a <i>(requi</i>	'red)	mortgage or rent the (Fish pond) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST		5 98 1 2 3 4	Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member
K3.4a <i>(requi</i> i	ired)	mortgage or rent the (Fish pond) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST		5 98 1 2 3 4 5	Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution
		mortgage or rent the (Fish pond) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST Question relevant when: selected(\${K3.1}, \${K3.1_id})		5 98 1 2 3 4 5	Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable
K3.4a <i>(requi</i>) K3.4b <i>(requi</i>)		mortgage or rent the (Fish pond) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST Question relevant when: selected(\${K3.1}, \${K3.1_id}) Who would you say is the SECOND person who can decide whether to sell, purchase, give away,		5 98 1 2 3 4 5 98	Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self
		mortgage or rent the (Fish pond) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST Question relevant when: selected(\${K3.1}, \${K3.1_id}) Who would you say is the SECOND person who can decide whether to sell, purchase, give away, mortgage or rent the (Fish pond) most of the time?		5 98 1 2 3 4 5 98 1 2	Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner)
		mortgage or rent the (Fish pond) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST Question relevant when: selected(\${K3.1}, \${K3.1_id}) Who would you say is the SECOND person who can decide whether to sell, purchase, give away,		5 98 1 2 3 4 5 98 1 2	Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self
		mortgage or rent the (Fish pond) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST Question relevant when: selected(\${K3.1}, \${K3.1_id}) Who would you say is the SECOND person who can decide whether to sell, purchase, give away, mortgage or rent the (Fish pond) most of the time?		5 98 1 2 3 4 5 98 1 2 3	Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner)
		mortgage or rent the (Fish pond) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST Question relevant when: selected(\${K3.1}, \${K3.1_id}) Who would you say is the SECOND person who can decide whether to sell, purchase, give away, mortgage or rent the (Fish pond) most of the time?		5 98 1 2 3 4 5 98 1 2 3 4	Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member

	Question Which of the following assets does your household own?	Ans	swer	None
K3.c (required)	vynich of the following assets does your nousehold own?	-		
		_		Pickup/truck
			2	SUV
			3	Saloon car
			4	Motorbike
			5	Bicycle
			6	Air conditioner
			7	Refrigerator
			8	Cold chain
		-		TV set
		-	9	
		_		Radio
			11	Generator
			12	Water pump
			13	Water tank
			14	Borehole/protected well
			15	Large livestock (e.g. oxen and cattle)
				small livestock (e.g. goat, pigs, sheep)
			17	Poultry (e.g. chicken, guinea fowl, duck
		-	L	turkey)
				Cellphone
			777	Other (specify)
	Please specify asset			
	Question relevant when: selected(\${K3.c}, '777')			
K3.c_i <i>(required)</i>				
Consented > Active > Intrahousehol	d participation and decision making > Ownership of assets (2) > Pickup/truck (1)	(Re	peate	ed group)
Group relevant when: not(selected	d(\${K3.c} , '19'))			
Consented > Active > Intrahouseh	nold participation and decision making > Ownership of assets (2) > Pickup/truck (1) > assets2			
	<=18, selected(\${K3.c} , index()), selected(\${K3.c} , '777'))			
K3.13 (required)	How many Pickup/trucks do you own in 2019			
		-		
K3.14 (required)	How many Pickup/trucks do you own in 2014 (5 years ago)	-		
K3.15 (required)	If you were to sell Pickup/truck today, what is the value per unit? (GHS)			
K3.16 (required)	Do you own Pickup/truck yourself?		1 Y	es, solely
	READ OUT LOUD. SELECT ONE		2 Y	es, jointly
			3 Y	es, solely and jointly
			4 N	lo
K3.17a <i>(required)</i>		_		Self
	Who's name is on the title, registration and other documents of the Pickun/truck?		1 1	Cell
rtoa (regamea)	Who's name is on the title, registration and other documents of the Pickup/truck?	H		· · · · ·
noa (roganos)	Who's name is on the title, registration and other documents of the Pickup/truck?		2	Spouse (or partner)
.co.rra (roquinos)	Who's name is on the title, registration and other documents of the Pickup/truck?		3	Other household member
	Who's name is on the title, registration and other documents of the Pickup/truck?		3	, , , ,
	Who's name is on the title, registration and other documents of the Pickup/truck?		3 4	Other household member
	Who's name is on the title, registration and other documents of the Pickup/truck?		2 3 4 5	Other household member Government or other institution
K3.18a (<i>required</i>)	Who's name is on the title, registration and other documents of the Pickup/truck? Who is the FIRST person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98	Other household member Government or other institution Clan (Group of relatives) Not applicable
	Who is the FIRST person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1	Other household member Government or other institution Clan (Group of relatives) Not applicable Self
			2 3 4 5 98 1 2	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner)
	Who is the FIRST person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1 2 3	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member
	Who is the FIRST person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1 2 3	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner)
	Who is the FIRST person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1 2 3 4	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member
	Who is the FIRST person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1 2 3 4 5	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution
	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time?		2 3 4 5 98 1 2 3 4 5 98	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable
K3.18a (required)	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? Who is the SECOND person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1 2 3 4 5 98 1 1	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self
K3.18a (required)	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time?		2 3 4 5 98 1 2 3 4 5 98 1 2 2	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner)
K3.18a <i>(required)</i>	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? Who is the SECOND person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1 5 98 1 2 3 3 4 5 3 3 6 1 2 3 3 6 1 2 3 3 6 1 2 3 3 6 1 2 3 3 6 1 3 6 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member
K3.18a (required)	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? Who is the SECOND person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1 5 98 1 2 3 3 4 5 3 3 6 1 2 3 3 6 1 2 3 3 6 1 2 3 3 6 1 2 3 3 6 1 3 6 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner)
K3.18a <i>(required)</i>	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? Who is the SECOND person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1 2 3 4 5 98 1 2 3 4 4 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member
K3.18a <i>(required)</i>	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? Who is the SECOND person you would say can decide whether to sell, purchase, give away,		2 3 4 5 98 1 2 3 4 5 98 1 2 3 4 5 98 1 5	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution
K3.18a (required) K3.18b (required)	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? Who is the SECOND person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time?		2 3 4 5 98 1 2 3 4 5 98 1 2 3 4 5 98 1 5	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Clan (Group of relatives)
K3.18a (required) K3.18b (required) Consented > Active > Intrahousehold	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? Who is the SECOND person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? participation and decision making > Access to Credit		2 3 4 5 98 1 2 3 4 5 98 1 2 3 4 5 98 1 2 98	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Government or other institution Clan (Group of relatives) Not applicable
K3.18a (required) K3.18b (required)	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? Who is the SECOND person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? participation and decision making > Access to Credit Did anyone in your household ever apply for a loan or credit (in cash or in-kind) to support your		2 3 4 5 98 1 2 3 4 5 98 1 2 3 4 5 98 1 2 3 4 5 98	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Government or other institution Clan (Group of relatives) Not applicable
K3.18a (required) K3.18b (required) Consented > Active > Intrahousehold	Who is the FIRST person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? Who is the SECOND person you would say can decide whether to sell, purchase, give away, mortgage or rent Pickup/truck most of the time? participation and decision making > Access to Credit		2 3 4 5 98 1 2 3 4 5 98 1 2 3 4 5 98 1 2 98	Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable Government or other institution Clan (Group of relatives) Not applicable

Field	Question	Ans	swer	
K4.2 (required)	Specifically for FISH FARMING (OR HATCHERY), did anyone in your household ever apply for a loan or credit (in cash or in-kind) to support your fish farming in the last two years (2017 - 2019), either from friends, family, moneylenders, buyers, association, bank, and other financial institutions? Question relevant when: selected(\${K4.1}, '1')		1 Y	
K4.3 (required)	Why did you not try to obtain a loan in the last two years? Question relevant when: selected(\${K4.1}, '0')		2	No need for loan Inadequate collateral Had outstanding loan
			6	Past history of default Interest rate too high Lenders not located nearby Procedures too cumbersome
K4.3i <i>(required)</i>	Specify the reason for not obtaining a loan in the last two years		777	Other (specify)
K4.4 <i>(required)</i>	Question relevant when: selected(\${K4.3}; ,'777') Would you or anyone in your household be able to take a loan or borrow cash/in-kind from any source if you wanted to?		1 Y 2 N 3 N	
K4.4i <i>(required)</i>	Why? Question relevant when: selected(\${K4.4}, '2') or selected(\${K4.4}, '3')			
K4.5 <i>(required)</i>	An account can be used to save money, to make or receive payments, or to receive wages or financial help. Do you yourself have an account?		2 Y	es, solely es, jointly es, solely and jointly
K4.7 (required)	From whom did you attempt to get loan or credit (in cash or in kind) for fish farming? Question relevant when: selected(\${K4.2}, '1')		1 2 3 4 5 6 7 8	Friends or family Cooperative/farmer organization Aggregator, trader, buyer (not under scheme) Private money lender Employer Commercial bank Micro-finance institution Non governmental or faith-based organisation Governmental or district body-run program Other projects Other (specify)
K4.7i <i>(required)</i>	Please specify from whom you attempt to get loan/credit for your fish farming Question relevant when: selected(\${K4.7}, '777')			
Group relevant when: selected(\${K}CONSENTED > Active > Intrahousehole	participation and decision making > Access to Credit > Friends or family (1) 4.1), '1') d participation and decision making > Access to Credit > Friends or family (1) > loan/credit =10, selected(\${K4.7}, index()), selected(\${K4.7}, '777')) Did you get the loan or credit from (Friends or family)?	(Re	1 Y	
K4.9 (required)	What was the value of this loan/credit from (Friends or family) excluding interest, in GHC (provide GHC equivalent if it was in-kind) Question relevant when: selected(\${K4.8}, '1')		- 11	·
K4.12 (required)	What was the interest rate per year (%) on the loan from (Friends or family)? Question relevant when: selected(\${K4.8}, '1')			
K4.13 <i>(required)</i>	Was collateral required to obtain the loan/credit from (Friends or family)? Question relevant when: selected(\${K4.8}, '1')		0 N 1 Y 2 G	
K4.14a <i>(required)</i>	Who is the FIRST/major person who made the decision to borrow and what to do with the money or item borrowed from (Friends or family) most of the time? SELECT UP TO TWO (2) PERSONS WITH THE PRIMARY DECISION MAKER LISTED FIRST Question relevant when: selected(\${K4.13}, '1') or selected(\${K4.13}, '2')		2 3 4 5	Self Spouse (or partner) Other household member Government or other institution Clan (Group of relatives) Not applicable

Field	Question	Answe	r
K4.14b (required)	Who is the SECOND person who made the decision to borrow and what to do with the money or	4	Self
ita. iab (reguirea)			
	item borrowed from (Friends or family) most of the time?	2	Spouse (or partner)
	Question relevant when: selected(\${K4.13} , '1') or selected(\${K4.13} , '2')	3	Other household member
		4	Government or other institution
		5	Clan (Group of relatives)
			Not applicable
K4.16a <i>(required)</i>	Who is the FIRST person responsible for repaying the money or item borrowed from (Friends or	1	Self
	family)?	2	Spouse (or partner)
	Question relevant when: selected(\${K4.13}, '1') or selected(\${K4.13}, '2')	3	Other household member
		4	Government or other institution
			Clan (Group of relatives)
		98	Not applicable
K4.16b (required)	Who is the SECOND person responsible for repaying the money or item borrowed from (Friends or	1	Self
	family)	2	Spouse (or partner)
	Question relevant when: selected(\${K4.13}, '1') or selected(\${K4.13}, '2')		Other household member
			Government or other institution
		5	Clan (Group of relatives)
		98	Not applicable
Consented > Active > Intrahousehold	participation and decision making > Sources of information or extension services		
		4	Fisherica Commission (FC) sylvanian
K5.1 (required)	Where do your household get your fish farming advice and information from?	1	Fisheries Commission (FC) extension
			agents
		2	Where you buy fingerlings
		3	Chemical shop
		4	Other fish farmers in the community
		5	Leading/large scale farmers in the
			community
		6	Ministry of Food and Agriculture (MoFA)
		7	Leading or model farmers in other villages
		8	Farmer Based Organisations (FBO) or
			Cooperatives
		9	Other NGO/projects
		10	Radio
		11	Television
		12	Print media
			None
		999	Don't know
		777	Other (specify)
K5.1i (required)	Please specify where your household gets fish farming advice and information from		
(required)	Question relevant when: selected(\${K5.1}, '777')		
K5 0 (to 0			a #
K5.2 (required)	Who in the household gets fish farming advice and information?		Self
	Select up to three (3) persons Overtice relevant when pat/selected/ \$(K5.1), (121)	2	Spouse (or partner)
	Question relevant when: not(selected(\${K5.1}, '13'))	3	Other female household member
	Response constrained to: count-selected(.) <= 3	4	Other male household member
			Not applicable
		90	
			Mala
K5.3 (required)	Is the main source or provider of fish farming advice or information a male or female?	1 1	viaic
K5.3 (required)	Is the main source or provider of fish farming advice or information a male or female? Question relevant when: not(selected(\${K5.1}, '13'))		- emale
K5.3 (required)		2 F	
K5.3 (required)		2 F 3 E	Female Both
	Question relevant when: not(selected(\${K5.1}, '13'))	2 F 3 E 4 [Female Both Don't know
		2 F 3 E 4 [Female Both Don't know
	Question relevant when: not(selected(\${K5.1}, '13'))	2 F 3 E 4 [Female Both Don't know
Consented > Active > Intrahouseh	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest	2 F 3 E 4 [Female Both Don't know
Consented > Active > Intrahouseh	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent?	2 F 3 E 4 [Female Both Don't know
Consented > Active > Intrahouseh	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know	2 F 3 E 4 [Female Both Don't know es Commission officer
Consented > Active > Intrahouseh K5.4 (required)	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know Response constrained to: (.>0 and .<=900) or .=999 Unit of distance to the nearest Fisheries Commission Extension agent?	2 F 3 E 4 [Female Both Don't know es Commission officer
Consented > Active > Intrahouseh K5.4 (required)	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know Response constrained to: (.>0 and .<=900) or .=999	2 F 3 E 4 [Fisherie	Female Both Don't know es Commission officer Km
Consented > Active > Intrahouseh K5.4 (required)	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know Response constrained to: (.>0 and .<=900) or .=999 Unit of distance to the nearest Fisheries Commission Extension agent?	2 F 3 E 4 [T 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Female Both Don't know es Commission officer Km Miles Meters
Consented > Active > Intrahouseh K5.4 (required)	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know Response constrained to: (.>0 and .<=900) or .=999 Unit of distance to the nearest Fisheries Commission Extension agent?	2 F 3 E 4 [T 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Female Both Don't know es Commission officer Km
Consented > Active > Intrahouseh K5.4 (required)	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know Response constrained to: (.>0 and .<=900) or .=999 Unit of distance to the nearest Fisheries Commission Extension agent?	2 F 3 E 4 [Fisheria 1 F 2 N 3 N 5 N 5 N	Female Both Don't know es Commission officer Km Miles Meters
Consented > Active > Intrahouseh K5.4 (required) K5.4a (required)	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know Response constrained to: (.>0 and .<=900) or .=999 Unit of distance to the nearest Fisheries Commission Extension agent? Question relevant when: \${K5.4}!=999	2 F 3 E 4 [Fisherie	Female Both Don't know Bos Commission officer Km Wiles Weters Winutes (walk) Can't answer
Consented > Active > Intrahouseh K5.4 (required)	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know Response constrained to: (.>0 and .<=900) or .=999 Unit of distance to the nearest Fisheries Commission Extension agent?	2 F 3 E 4 [Fisherie 1 F 2 F 3 F 4 (1 Y	Female Both Don't know as Commission officer Km Miles Meters Minutes (walk) Can't answer
Consented > Active > Intrahouseh K5.4 (required) K5.4a (required)	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know Response constrained to: (.>0 and .<=900) or .=999 Unit of distance to the nearest Fisheries Commission Extension agent? Question relevant when: \${K5.4} != 999 Do you receive advice from a Fisheries Commission Extension agent?	2 F 3 E 4 [Fisherie	Female Both Don't know as Commission officer Km Miles Weters Winutes (walk) Can't answer
Consented > Active > Intrahouseh K5.4 (required) K5.4a (required)	Question relevant when: not(selected(\${K5.1}, '13')) old participation and decision making > Sources of information or extension services > Distance to nearest What is the distance to the nearest Fisheries Commission Extension agent? Enter 999 if don't know Response constrained to: (.>0 and .<=900) or .=999 Unit of distance to the nearest Fisheries Commission Extension agent? Question relevant when: \${K5.4}!=999	2 F 3 E 4 [Fisheric 1] 1 F 2 M 3 M 5 M 4 (0 1 N 0 M 1 N 0 M 1 N 0 M 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1	Female Both Don't know as Commission officer Km Miles Weters Winutes (walk) Can't answer

eld	Question	Answei	Answer		
K5.6 (required)	Did you receive advice (extension/technical services) on aquaculture production in 2018?	1 Yes 0 No			
Consented > Active > Intrahousehold pa Group relevant when: selected(\${K5.0	rticipation and decision making > Sources of information or extension services > Extension/technica 6} , '1')	al service	on fish farming		
K5.7 (required)	How often did you receive advice in 2018?				
	Question relevant when: selected(\${K5.6}, '1')				
K5.8 (required)	On which technology or subject did you receive advice?	1	Stocking density		
	Question relevant when: selected(\${K5.6}, '1')	2	Proper feeding procedure		
		3	Cage/pond construction		
		4	Site evaluation and selection		
		5	Processing and marketing of fish		
		6	Hygienic handling of fish		
		7	Water sampling		
		8	Pipe management		
		9	Hygienic pond care		
			Other (specify)		
K5 8i (required)	Please specify technology or subject you received advice on		other (speedify)		
K5.8i <i>(required)</i>	Question relevant when: selected(\${K5.8} , '777')				
K5.9 (required)	Rate the usefulness of the information provided	1 1	Not useful		
	Question relevant when: selected(\${K5.6}, '1')		Somewhat useful		
		3 (Jseful		
		4 \	/ery useful		
K5.10 (required)	Did you act on it or did you follow the advice provided?	1)	•		
rono (roganos)	Question relevant when: selected(\${K5.6} , '1')	1 0			
E371 (required)	What is the source of extension/technical service on fish farming?				
L311 (required)	what is the source of extension/technical service of fish farming:	1	Agro-input dealer shop		
		2	FC extension agent		
		3	Hatchery		
		4	Colleague farmers		
		5	MoFA extension agents		
		6	Market		
		7	Own farm		
		111	Other (please specify)		
E37li (required)	Please specify the source of extension/technical services on your fish farming				
	Question relevant when: selected(\${E37I}, '777')				
	Response constrained to: string-length(.)<=40				
	What is the distance to the nearest source of extension/technical service?				
E38li (required)	Unit of distance	1 k			
	Question relevant when: \${E38I} > 0		Miles		
			Minutes (walk)		
		4 1	Meters		
E39I (required)	What is your perception on quality of extension/technical service?		/ery good		
			Good		
			Somewhat good		
		4 1	Not good		
E40I (required)	What is your perception of availability of extension/technical service?	1 \	/ery good		
		2 (Good		
		3 8	Somewhat good		
		4 1	Not good		
E41I (required)	What is your perception on affordability of extension/technical service?	1 \	/ery good		
		2 (Good		
		3 8	Somewhat good		
		4 1	Not good		
K5.11 (required)	How many times did a veterinarian visit your fish farm during the last year?				
	To be answered by main respondent only Aside from extension agents and veterinarian above, how many other people do you yourself talk				
	Aside from extension agents and veterinarian above, how many other people do you yourself talk to about fish farming?				
K5.13 (required)	How many fish farmers do you know?		/		
VE 11 (required)	Are you a member of a group, association or organization, including any informal groups or social	1 1 1	res		
	networks you belong to discuss issues and do joint activities?	1 0			

Field	Question	Answer
K5.15 (required)	Are you a member of groups, associations or organizations, including any informal groups or social networks you belong to discuss issues and do joint activities related to fish farming or marketing? Question relevant when: selected(\${K5.14}, '1')	1 Yes 0 No
K5.16 (required)	Did you receive any other support or assistance other that training or technical support on fish farming from any project or program in the last 3 years?	1 Yes 0 No
K5.17 (required)	What program or project? Question relevant when: selected(\${K5.16}, '1')	
K5.18 <i>(required)</i>	What type of support or assistance did you receive on fish farming? Select all applicable Question relevant when: selected(\${K5.16}, '1')	Credit/loan, at subsidized rate Free or subsidized seed/fingerlings Free or subsidized feed Free or subsidized equipment for cage/pond construction Free or subsidized materials/tools Free or subsidized materials/tools Free or subsidized chemicals/fertilizer/drugs/hormones/vaccines Market facilitation Input packages linked to model farmer or farm demos Tother (please specify)
K5.18i <i>(required)</i>	Please specify what type of support or assistance you received on fish farming Question relevant when: selected(\${K5.18}, '777')	
Places_male (required)	Do you visit the following places? If multiple, select all that apply Question relevant when: selected(\${B7}, '1') Response constrained to: if(selected(., '6'), count-selected(.) = 1, count-selected(.) >=1)	Market/trading place Visit family/relative/friends inside or outside the community Temple/church/mosque Public village gathering or community meeting Training venue for NGO/programs None
Places_female (required)	Do you visit the following places? Select all that applies Question relevant when: selected(\${B7}, '0') Response constrained to: if(selected(., '6'), count-selected(.) = 1, count-selected(.) >=1)	Market/trading place Visit family/relative/friends inside or outside the community Temple/church/mosque Public village gathering or community meeting Training venue for NGO/programs None
place (1)	participation and decision making > Sources of information or extension services > Market/trading	(Repeated group)
Group relevant when: selected(\${E}	### Research Researc	1 Everyday 2 Every week at least once 3 Every 2 weeks at least once 4 Every month at least once 5 Less than once a month 6 Never
K5.21 <i>(required)</i>	Do you feel you would be able to visit Market/trading place if you wanted to? Question relevant when: selected(\${Places_female} , \${place_id})	1 Yes 0 No
K5.22 (required)	Who usually decides whether you can go Market/trading place? Question relevant when: selected(\${K5.21}, '1')	1 Self 2 Spouse (or partner) 3 Other household member 4 Government or other institution 5 Clan (Group of relatives) 98 Not applicable
K5.23 (required)	Does your husband/partner or other household member object to you going alone to Market/trading place? Question relevant when: selected(\${K5.22}, '1') or selected(\${K5.22}, '2') or selected(\${K5.22}, '3') or selected(\${K5.22}, '4') or selected(\${K5.22}, '5') or selected(\${K5.22}, '6') or selected(\${K5.22}, '7') or selected(\${K5.22}, '8')	1 Yes 0 No

Field	Question	Answer	Answer	
K5.24 (required)	Under what circumstances would this person NOT object to your going to Market/trading place? Select all applicable Question relevant when: selected(\${K5.23}, '1')	3 4	If I have company (relatives, children) If I can arrange my own expenses (for transport) If I follow dress acceptably Under no circumstances will I be allowed go	
K5.24i <i>(required)</i>	Please specify what circumstances this person would NOT object to your going to Market/trading	777	Other (please specify)	
	place Question relevant when: selected(\${K5.24}, '777')			
K5.25 (required)	Do these objections prevent you from going alone to Market/trading place? Question relevant when: selected(\${K5.24}, '1') or selected(\${K5.24}, '2') or selected(\${K5.24}, '3') or selected(\${K5.24}, '777')	1 Yes 0 No		
K5.26 (required)	How often do you listen to the radio?	2 A	1 Every day 2 At least once a week 3 At least once a month 4 At least once a year	
K5.27 (required)	Do you get agricultural and fish farming advice or information from the radio? Question relevant when: not(selected(\${K5.26} , '5'))	1 Y	/es	
K5.28 (required)	How often do you watch television?	2 A 3 A 4 A	1 Every day 2 At least once a week 3 At least once a month 4 At least once a year 5 Never	
K5.29 (required)	Do you get agricultural and fish farming advice or information from TV programs? Question relevant when: not(selected(\${K5.28} , '5'))	1 Yes 0 No		
K5.30 <i>(required)</i>	How often do you talk on the phone?	1 Every day 2 At least once a week 3 At least once a month 4 At least once a year 5 Never		
K5.31 (required)	Do you get agricultural and fish farming advice or information from the phone or mobile messaging? Question relevant when: not(selected(\${K5.30}, '5'))	1 Yes 0 No		
intro_K6.1_K6.13	I am going to read out 13 statements about your own perception or opinions on the role of women and men in fish farming. Kindly tell me whether you Strongly Agree, Agree, Disagree, or Strongly Disagree. There are no wrong or correct answers and your responses are strictly confidential. We just would like to know how the gender roles are currently perceived so that we can cater for the technical support and project interventions accordingly			
Consented > Active > Intrahous	sehold participation and decision making > Gender attitudes			
K6.1 <i>(required)</i>	Women should leave fish farming to the men especially if there is an able man in the household to do it	2 3	Strongly Agree Agree Disagree	
			Strongly Disagree Don't know Refuse to answer	
K6.2 <i>(required)</i>	A man will be considered less of a man if his wife is involved in fish farming	1 2 3 4 999	Strongly Agree Agree Disagree Strongly Disagree Don't know	
K6.3 <i>(required)</i>	It is dangerous/risky for a woman to travel to suppliers, buyers or markets	1 2 3	Refuse to answer Strongly Agree Agree Disagree Strongly Disagree	
			Strongly Disagree Don't know Refuse to answer	

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training 2 Agree 3 Disagree 4 Strongly Disagree 999 Don't know			ш	888	Refuse to answer
3 Disagree 4 Strongly Disagree 999 Don't know	K6.11 (required)	It brings benefits to the family to have women participate in training activities, such as aquaculture		1	Strongly Agree
4 Strongly Disagree 999 Don't know		training		2	Agree
999 Don't know				3	Disagree
				4	Strongly Disagree
888 Refuse to answer				999	Don't know
				888	Refuse to answer

Field	Question	Answ	er
	ticipation and decision making > Time constraints		.,
K7.1 (required)	If you want to do something (livelihood-related, training-related, self-care) will you be able to reorganize your tasks so that you can make time to do it?		Yes No
K7.2 (required)	If you wanted to do something (livelihood-related, training-related, self-care) and could not take	1	Yes
	your child with you, is there someone who could care for your child in your absence?	0	No
	Select not applicable, if respondent does not have a child from 0 - 5 years old	98	Not applicable
	Question relevant when: selected(\${B7}, '0')		
K7.3 (required)	If you had an additional 2 hours in your day to do anything, how would you spend that time?	1:	5 None
	Select two or less Response constrained to: if(selected(., '15'), count-selected(.) = 1, count-selected(.) <=2)	1	Sleeping and resting/relaxing
		2	Eating and drinking
		3	Personal care
		4	School (incl. homework)
		5	· · ·
		6	
		7	More time for farming
		8	Domestic work (incl. cooking, fetching water and fuel)
		9	Caring for children, caring for adults (sick, elderly)
		1	0 Travelling (not for work or school)
			1 Shopping/getting service (incl. health
		-	services)
			2 Exercising
			Social activities and hobbies
			4 Religious activities
M7 0: (as suring d)	Discount for how would be additional Observation of a wide d	//	77 Other (specify)
K7.3i <i>(required)</i>	Please specify how you would an additional 2 hours in your day if provided Question relevant when: selected(\${K7.3}, '777')		
Consented > Active > Intrahousehold par	ticipation and decision making > Female owner experience		
Group relevant when: selected(\${B7} ;	0)		
Q1 (required)	Based on your experience, name up to three advantages/opportunities for women who want to		
	become managers/owners of fish farms?		
O2 (required)	Enter 999 if don't know or 888 if refuse to answer		
Q2 (required)	Based on your experience, name up to three disadvantages/challenges for women who want to become managers/owners of fish farms?		
	Enter 999 if don't know or 888 if refuse to answer		
Q3 (required)	Based on your experience, can you name up to three advantages/opportunities for women who will		
	like to work as employees or as family or hired labor for fish farms?		
	Enter 999 if don't know or 888 if refuse to answer		
Q4 <i>(required)</i>	Based on your experience, can you name up to three advantages/opportunities for women who will		
	like to work as employees or as family or hired labor for fish farms? Enter 999 if don't know or 888 if refuse to answer		
Q5 (required)	What do you think can be done to encourage women as managers/owners of fish farms?		
	Enter 999 if don't know or 888 if refuse to answer		
Q6 (required)	What do you think can be done to encourage more women as employees or as family or hired		
	labor of fish farms? Enter 999 if don't know or 888 if refuse to answer		
intro_K8.1_K8.11	I would like to look around your facility.		
	This is not an assessment and whatever we collect here will be strictly confidential and will not be		
	shared with anyone or any regulatory agency.		
	We just want to make some observations and some notes so that we can cater for the technical		
	support and capacity strengthening activities of a potential project.		
Consented > Active > Aquaculture and fish	health management and practices		
Group relevant when: selected(\${A01} ,	'1') or selected(\${A01} , '2') or selected(\${A01} , '3')		
K8.1 (required)	Overall appearance or order of the facility		
	Rank on a scale of 1 - 5 scale (1 (bad) and 5 (excellent) Response constrained to: .>=1 and .<=5		
K8.2 (required)	Does the facility have a toilet?	1	Yes
TOLE (Toguirou)	5555 the identity flate a tellect		No
K8.3 (required)	Overall sanitation/hygiene (how clean the facility/surroundings)	U	
10.0 (required)	Rank on a scale of 1 - 5 scale (1 (bad) and 5 (excellent)		
	Response constrained to: .>=1 and .<=5		
K8.4 (required)	Are there animals around/near the facility (anything you can see)	1	Yes
		0	No

	aqaasanaro_noassnoia_sarvoy_labsi_primassis (2).ne		
Field	Question	Answei	,
K8.5 <i>(required)</i>	Does the facility have changing room for staff/employees?	1 1	/es
		1 0	No
K8.6 (required)	Sanitation and hygiene of the changing room		
	Rank on a scale of 1 - 5 scale (1 (bad) and 5 (excellent) Question relevant when: selected(\${K8.5}, '1')		
	Response constrained to: .>=1 and .<=5		
K8.7 (required)	How neatly arranged is the feed storage facility as well as its sanitation		
	Rank on a scale of 1 - 5 scale (1 (bad) and 5 (excellent) Response constrained to: .>=1 and .<=5		
K8.8 (required)	How is the feed stored?	1	Raised wooden platform
			Stacked and stored directly against the wall
			and/or concrete floors
		777	Other (specify)
K8.8i <i>(required)</i>	Please specify how feed is stored		
	Question relevant when: selected(\${K8.8}, '777')		
K8.9 (required)	Does the farm have a written pest control plan for feed?	1 \	/es
		1 0	No
K8.10 (required)	Does the farm have a storage cabinet or facility for drugs, antibiotics, hormones or chemicals?	1 \	/es
		1 0	No
K8.12 (required)	Does the farm have a written sanitation and hygiene plan?	1 \	/es
		1 0	No.
M1 (required)	Please can I call you to ask updates on your production/harvest after 6 months?	1 1	′es
		0 1	No
A5 (required)	Respondent's response status	1	Completed/Successful (CONTINUE)
		2	Entire household absent outside the area for
			extended period of time (END INTERVIEW)
		3	Refused - in general (END INTERVIEW)
		4	Refused to consent (END INTERVIEW)
		5	Postponed (RETURN FOR CALL-BACK)
		6	No household member at home or no
			competent respondent at home at time of
			visit (RETURN FOR CALL-BACK)
			Partial (RETURN FOR CALL-BACK)
		777	Other (please specify)
A5i <i>(required)</i>	Please specify respondent's response status Question relevant when: selected(\${A5}, '777')		
A6 (required)	Name of enumerator	1	Mark Aduah
		2	Dan Kumi Ntow
		3	Akwesi Asare
		4	Emmanuel Sackey
		5	Paul Obeng
		6	Prince Sarbeng
		7	Gregory Sesime Anku
		8	Caleb Otchere
		9	Samuel Darko
			Richard Otoo
			Yahaya Suwar
			Sheriff Adams
			Angelina Awunor
			Zeinabu Abubakari
			Grace Bosompem Michael Darko
			Ivy Botchway
			Abednego Amoah
			Jeff Neequaye
			Evelyn Anthony
			Mavis Gyan
			Other (specify)
A6i <i>(required)</i>	Specify name of enumerator		, , , , , , , , , , , , , , , , , , , ,
	Question relevant when: selected(\${A6}, '777')		

112013	aquaculture_flouseriolu_survey_labor_printable (2).i	10111			
ield	Question	An	Answer		
A11 (required) A11i (required)	Name of supervisor Specify name of supervisor		-	Abednego Amoah Dan Kumi Ntow Paul Obeng Samuel Darko Other (specify)	
	Question relevant when: selected(\${A11}, '777')				
A7 (required)	Who were interviewed?		-	Alone	
		\perp	-	Vith other staff present	
		\vdash	-	Vith other household members present	
				With other staff and household members present	
A8	Comments from enumerator				
L1	Can you provide me with the telephone number of your spouse (second respondent)?		1 Y	′es	
	Ask this if second respondent is not immediately available for the interview		0 N	No	
L1a	Telephone number Question relevant when: selected(\${L1}, '1') Response constrained to: ((string-length(.)>=10 and string-length(.)<=10) and not(regex(.,'^(.*)) [lp{Alpha}](.*)\$')) and not(regex(.,'^(.*) s(.*)\$')) and not(regex(.,'^(.*) s(.*)\$'))				
L1b (required)	Why? Question relevant when: selected(\${L1}, '0')		1	Spouse (second respondent) is not at all involved in fish farming or marketing	
		\vdash	2	Refuse to give out number	
		_	777	Other (specify)	
L1c (required)	Please specify respondent refuse to give number				
	Question relevant when: selected(\${L1b}, '777')				