LOT 3 - EU PESCA PROJECT

Good Morning/Afternoon/Evening Sir/Madam, I am, from ECRAM. I am part of a team interviewing People for the study on 'UPGRADING THE FEED OUTPUT, QUALITY AND RELIABILITY' under the PESCA project in Uganda. The project is funded by the European Union (EU). The information generated will guide the development of an appropriate fish feed value chain in the country. You have been randomly selected to participate in this survey. I you agree, I will ask you questions about our enterprise/farm. You have the choice to participate or not to participate in this survey. You can stop at anytime, or skip any questions you do not want to answer. By answering the questions you have agreed to take part in this study. I thank you in advance for your participation. Please feel free to ask any questions about the interview or study. The information provided will be confidential, meaning that no one except me will know it was you who gave these answers and the information you give will only be used for the purposes of this research or study. These questions usually take about 20 minutes.
Are you interested in participating in this survey?
Yes
○ No
Consent form
The respondent will be provided with a consent form. The enumerator will take a photo of the consent form.
Click here to upload file. (< 10MB)
Date of interview
yyyy-mm-dd
Name of Interviewer
Time of interview
Time at start of interview
hh:mm
LOCATION
Region
Central
Eastern
Western
Northern
North Western
SouthWestern

DISTRICTS IN THE CENTRAL REGION		
	Masaka	
	Mpigi	
	Mukono	
	Luweero	
	Lwengo	
	Kalangala	
	Wakiso	
Sub County/Town Council/Municipality in Kalangala District		
	Bubeke Sub County	
	Mazinga Sub County	
	Kalangala Town Council	
	Bujumba Sub County	
	Mugoye Sub County	
	Bufumira Sub County	
	Kyamuswa Sub County	
Sub County/Town Council/Municipality in Lwengo District		
Sub Co	ounty/Town Council/Municipality in Lwengo District	
Sub Co	ounty/Town Council/Municipality in Lwengo District Kkingo Sub County	
Sub Co		
Sub Co	Kkingo Sub County	
Sub Co	Kkingo Sub County Lwengo Town Council	
Sub Co	Kkingo Sub County Lwengo Town Council Kisekka Sub County	
Sub Co	Kkingo Sub County Lwengo Town Council Kisekka Sub County Kyazanga Town Council	
Sub Co	Kkingo Sub County Lwengo Town Council Kisekka Sub County Kyazanga Town Council Lwengo Sub County	
Sub Co	Kkingo Sub County Lwengo Town Council Kisekka Sub County Kyazanga Town Council Lwengo Sub County Malongo Sub County	
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	Kkingo Sub County Lwengo Town Council Kisekka Sub County Kyazanga Town Council Lwengo Sub County Malongo Sub County Ndagwe Sub County Kyazanga Sub County unty/Town Council/Municipality in Masaka District Buwunga SubCounty Bukakata SubCounty	
	Kkingo Sub County Lwengo Town Council Kisekka Sub County Kyazanga Town Council Lwengo Sub County Malongo Sub County Ndagwe Sub County Kyazanga Sub County Kyazanga Sub County Buwunga SubCounty Bukakata SubCounty Kabonera SubCounty	

Masaka Municipality

Sub County/Town Council/Municipality in Luwero District Bamunanika Sub County Katikamu Sub County Kalagala Sub County Kamira Sub County Kikyusa Sub County Zirombwe Sub county Bombo Town Council Butuntumula Sub County Luweero Town Council Luweero Sub County Makulubita Sub County Nyimbwa Sub County Wobulenzi Town Council Sub County/Town Council/Municipality in Mukono District Kyampisi Sub County Nama Sub County Mukono Municipality Koome Sub County Mpatta Sub County Mpunge Sub County Nakisunga SubCounty Ntenjeru Sub County Kasawo SubCounty Kimenyedde SubCounty Nabbaale Sub County Nagojje Sub County Ntunda SubCounty

Seeta-Namuganga Sub County

Sub County/Town Council/Municipality in Wakiso District		
	Kira Municipality	
	Makindye Municipality	
	Entebbe Municipality	
	Nansana Municipality	
	Katabi Town Council	
	Kajjansi Town Council	
	Kasanje Town Council	
	Bussi Sub County	
	Kyengera Town Council	
	Wakiso Sub County	
	Wakiso Town Council	
	Mende Sub County	
	Kakiri Town Council	
	Kakiri Sub County	
	Namayumba Town Council	
	Namayumba Sub County	
	Masulita Town Council	
	Masulita Sub County	
	Kasangati Town Council	
Sub Co	ounty/Town Council/Municipality in Mpigi District	
	Buwama Town Council	
	Mpigi Town Council	
	Kammengo Sub County	
	Kiringente Sub County	
	Kituntu Sub County	
	Muduuma Sub County	
	Nkozi Sub County	
DISTRIC	TS IN THE EASTERN REGION	
	Soroti District	
	Budaka District	
	Iganga District	
	Jinja District	

3/30/2020 Sub Co	DOT Dunty/Town Council/Municipality in Budaka District
	Naboa SubCounty
	Budaka TownCouncil
	Budaka Sub County
	Kachomo SubCounty
	Kaderuna Subcounty
	Kakule SubCounty
	Lyama Sub County
	Nansanga SubCounty
	Iki-Iki Sub County
	Kameruka SubCounty
	Kamonkoli SubCounty
	Katiira Sub County
	Mugiti SubCounty
Sub Co	ounty/Town Council/Municipality in Iganga District
	Nambale Sub County
	Nabitende Sub County
	Namungalwe Sub County
	Nawandala Sub County
	Kidaago Sub County
	Bulamogi Sub County
	Nakalama Sub County
	Nakigo Sub County
	Nawanyingi Sub County
	Iganga Municipality
Sub Co	unty/Town Council/Municipality in Soroti District
	Arapai SubCounty
	Soroti Municipality
	Asuret SubCounty
	Gweri SubCounty
	Kamuda Sub County
	Katine Sub County
	Soroti Sub county
	Tubur Sub County

Sub Co	ounty/ Town Council/Municipality in Jinja District
	Jinja Municipality
	KakiraTown Council
	Bugembe Town Council
	Buwenge Town Council
	Butagaya Sub County
	Buyengo Sub County
	Budondo Sub County
	Buwenge SubCounty
	Mafubira Sub County
	Busedde SubCounty
DISTRI	CTS IN THE WESTERN REGION
	Hoima District
	Kasese District
Sub Co	unty/Town Council/Municipality in Hoima District
	Kyabigambire Sub County
	Buseruka Sub County
	Kigorobya Sub County
	Kigorobya Town Council
	Kitoba Sub County
	Bugambe SubCounty
	Buhimba Sub County
	Kabwoya SubCounty
	Kiziranfumbi Sub County
	Kyangwali Sub County
	Hoima Municipality

Sub County/Town Council/Municipality in Kasese District		
	Kisinga Sub County	
	Bwera Sub County	
	Isango Sub County	
	Karambi Sub County	
	Kitholhu Sub County	
	Kyarumba SubCounty	
	Kyondo Sub County	
	Mahango SubCounty	
	Mpondwe/Lhubiriha Town Council	
	Mukunyu SubCounty	
	Nyakatonzi Sub County	
	Nyakiyumbu Sub County	
	Bugoye Sub County	
	Buhuhira Sub County	
	Bwesumbu Sub County	
	Hima Town Council	
	Karusandara SubCounty	
	Katwe-Kabatoro TownCouncil	
	Kilembe Sub County	
	Kitswamba Sub County	
	Kyabarungira SubCounty	
	Lake Katwe Sub County	
	Maliba Sub County	
	Muhokya Sub County	
	Rukoki Sub County	
	Kasese Municipality	
DICTRICTS IN THE NORTHERN REGION		
	Apac District	
	Amuru District	
	Oyam District	
	Omoro District	

Lira District

Sub County/Town Council/Municipality in Apac District		
	Aduku Sub County	
	Akokoro SubCounty	
	Abongomola Sub County	
	Aduku TownCouncil	
	Chawete Sub County	
	Inomo Sub County	
	Nambeiso Sub County	
	Apac Sub County	
	Apac Town Council	
	Chegere Sub County	
	Ibuje Sub County	
Sub County/Town Council/Municipality in Amuru District		
	Amuru Town Council	
	Pabbo Sub County	
	Atiak Sub County	
	Lamogi Sub County	
	Amuru Sub County	
Sub Co	ounty/Town Council/Municipality in Oyam District	
	Loro Sub County	
	Abok Sub County	
	Aber Sub County	
	Acaba Sub County	
	Aleka Sub County	
	Iceme Sub County	
	Kamdini Sub County	
	Minakulu Sub County	
	Myene Sub County	
	Ngai Sub County	
	Otwal Sub County	
	Oyam Town Council	

Sub County/Town Council/Municipality in Omoro District		
	Lakwana Sub County	
	Bobi Sub County	
	Lalogi Sub County	
	Odek Sub County	
	Koro Sub County	
	Ongako Sub County	
Sub Co	ounty/Town Council/Municipality in Lira District	
	Aromo Sub County	
	Adekokwok Sub County	
	Lira Municipality	
	Ayami Sub County	
	Ngetta SubCounty	
	Lira	
	Iwal	
	Agali	
	Agweng	
	Wiodyek	
	Ogur	
	Amach Town Council	
	Barr	
	Itek	
	Agweng Town Council	
	Amach	
DISTRI	CTS IN THE NORTH WESTERN	
	Arua	
	Pakwach	
	Nebbi	
	Koboko	

Sub County/Town Council/Municipality in Arua District

Udupi Sub County
Arua Municipality
Adumi Sub County
Aroi Sub County
Ayivuni Sub County
Dadamu SubCounty
Manibe Sub County
Oluko Sub County
Pajulu Sub County
Anyiribu Sub County
Offaka Sub County
Ogokko Sub County
Okollo Sub County
Pawor SubCounty
RhinoCampSubCounty
Rigbo Sub County
Uleppi SubCounty
Aii-vu Sub County
Bileafe Sub County
Katrini Sub County
Omugo SubCounty
Uriama SubCounty
Ajia Sub County
Arivu SubCounty
Logiri SubCounty

Vurra SubCounty

Sub County/Town Council/Municipality in Nebbi District		
	Nebbi Municipality	
	Parombo Sub County	
	Akworo Sub County	
	Atego Sub County	
	Erussi Sub County	
	Kucwiny Sub County	
	Ndhew Sub County	
	Nebbi Sub County	
	Nyaravur Sub County	
	Nebbi Town Council	
Sub Co	ounty/Town Council/Municipality in Pakwach District	
	Panyango Sub County	
	Panyimur Sub County	
	Alwi Sub County	
	Wadelai Sub County	
	Pakwach Town Council	
	Pakwach Sub County	
Sub Co	ounty/Town Council/Municipality in Koboko District	
	Dranya Sub County	
	Kuluba Sub County	
	Koboko Town Council	
	Lobule Sub County	
	Ludara Sub County	
	Midia Sub County	
DISTRIC	TS IN THE SOUTH WESTERN REGION	
	Bushenyi	
	Mbarara	
	Kanungu	
	Rukungiri	
	Ntugamo	
	Kisoro	
	Kabale	

	Todal da	
Sub County/Town Council/Municipality in Ibanda District		
	Rukiri Sub County	
	Kijongo Sub County	
	Bisheshe Sub County	
	Ibanda Town Council	
	Igorora Town Council	
	Ishongororo Sub County	
	Ishongororo Town Council	
	Kashangura Sub County	
	Keihangara Sub County	
	Kicuzi Sub County	
	Kikyenkye Sub County	
	Nsasi Sub County	
	Nyabuikye Sub County	
	Nyamarembe Sub county	
	Rushango Town Council	
Sub Co	unty/Town Council/Municipality in Kabale District	
	Kaharo Sub County	
	Buhara Sub County	
	Kabale Municipality	
	Buhara Sub County	
	Butanda SubCounty	
	Kaharo SubCounty	
	Kamuganguzi SubCounty	
	Katuna Town Council	
	Kitumba Sub County	
	Kyanamira Sub County	
	Maziba Sub County	
	Rubaya SubCounty	
	Bubaare Sub County	

Hamurwa Town Council https://ee.kobotoolbox.org/x/#4kS1bBSj

Bufundi Sub County

Hamurwa Sub County

Ikumba Sub County

	Muko Sub County
	Nyamweru Sub county
	Ruhija Sub County
	Bukinda Sub County
	Kamwezi Sub County
	Kashabya Sub County
	Muhanga Town Council
	Rwamucucu Sub County
Sub Co	ounty/Town Council/Municipality in Kisoro District
	Kanaba SubCounty
	Murora SubCounty
	Bukimbiri Sub County
	Busanza Sub County
	Chahi Sub County
	Kirundo Sub County
	Kisoro Town Council
	Muramba Sub County
	Murora SubCounty
	Nyabwishenya Sub County
	Nyakabande Sub County
	Nyakinama Sub County
	Nyarubuye Sub County
	Nyarusiza Sub County
	Nyundo Sub County
Sub Co	unty/Town Council/Municipality in Kanungu District
	Katete Sub County
	Kayonza Sub County
	Butogota Town Council
	Kambuga Sub County
	Kambuga Town Council
	Kanungu Town Council
	Kanyantogoro Sub County

0,00,2020	Kihihi Town Council
	Kinaba Sub County
	Kirima Sub County
	Mpungu Sub County
	Nyakinoni Sub County
	Nyamirama Sub County
	Nyanga Sub County
	Rugyeyo Sub County
	Rutenga Sub County
Sub Co	ounty/Town Council/Municipality in Mbarara District
	Bukiiro Sub County
	Rubindi Sub county
	Bubaare Sub County
	Kagongi Sub County
	Kashare Sub County
	Rubaya Sub County
	Rwanyamahembe SubCounty
	MbararaMunicipality
	Bugamba SubCounty
	Mwizi Sub County
	Ndeija Sub County
	RugandoSubCounty
Sub Co	unty/Town Council/Municipality in Bushenyi District
	Nyabubare Sub County
	Kyamuhunga Sub County
	Bushenyi-Ishaka Municipality
	Bitooma Sub County
	Bumbaire Sub County
	Ibaare Sub County
	Kakanju Sub County
	Kyabugimbi Sub County
	Kyeizooba Sub County
	Nyabubare Sub County
	Ruhumuro Sub County

Sub C	ounty/Town Council/Municipality in Rukungiri District
	Nyakishenyi Sub County
	Nyarushanje Sub County
	Kebisoni Town Council
	Kebisoni Sub County
	Buyanja TownCouncil
	Buyanja SubCounty
	Bugangari SubCounty
	Ruhinda SubCounty
	Bwambara Sub County
	Buhunga Sub County
	Nyakagyeme Sub County
	Rukungiri Municipal Council
Sub Co	unty/Town Council/Municipality in Ntungamo District
	Ntungamo Municipal council
	Bwongera Sub County
	Kagarama Town Council
	Kibatsi Sub County
	Nyabihoko Sub County
	Rwashameire Town Council
	Itojo Sub County
	Kitwe Town Council
	Ntungamo Sub County
Parish	/Ward/Division
Village	e/Cell
CATE	GORY OF ENTERPRISE
	Fish Farm or Fish Farmer
	Fish Feed Producer/Manufacturer
	Ingredient Supplier
	Research
	Academia
	Extension Service Provider
	Importer (Feeds or Ingredients)

Fish Feed Traders/Stockiests/Distributor
PolicyMakerandImplementere.g.NEMA,MAAIF,MTICetc.
LaboratoryTechnician
Ingredient Producer
ESPONDENT BIO-DATA
me of Respondent
s should be the name of the person being interviewed

Nhat i	s your role in this enterprise?
\bigcirc	Owner
\bigcirc	Manager
\bigcirc	Technician
\bigcirc	Lecturer
\bigcirc	Casual Worker
\bigcirc	Research Officer
\bigcirc	Aquaculture Extension Worker
\bigcirc	Commissioner
\bigcirc	Permanent Secretary
\bigcirc	Others (Specify)
f othe	rs, please specify your role in this enterprise
	Contact of the Respondent ould be the phone contact of the farmer e.g. 0776xxxxxx
	r of the Respondent
i nis sn	ould be the gender of the respondent Male
	Female
\cup	Others
f othe	rs, please specify the gender
Age of	the Respondent
\bigcirc	Below 18 Years
\bigcirc	18 - 35 Years
\bigcirc	Above 35 Years
	of Education ould be the level of education of the owner
\bigcirc	Primary
\bigcirc	Ordinary Level (O - Level)
\bigcirc	Advanced Level (A - Level)
\bigcirc	Tertiary(Diploma,Degree,Masters,PhD,GraduateCerficate)
\bigcirc	VocationalInstitute
	Others

If others, please specify the level of education

Name of Respondent	
If it different from that of the farmer	
FISH PRODUCTION AT THE FARM LEVEL	
Name of Respondent The person ANSWERING the questionnaire	
What is your role in thisfish farm? Role of the respondent Owner Manager Technician/Worker Others	
If others, please specify your role in the farm	
What is the name of the Proprietor? If different from the name of respondent	

When was this farm established?

What i	motivated you to start the fish farm?
	Income generation
	Fish for home consumption
	Availabilityofagoodsiteforfishfarming
	Looking foremployment
	There was a ready market forfish
	Decline in capture fisheries
	Hobby
	It is my profession
	Others
If othe	rs, please specify what prompted you to startfish farming
If MAN	AGER, TECHNICIAN or WORKER, how many years of experience do you have of working on fash farm?
	0 - 5 years
	6 - 10 years
	11 - 15years
	16 - 20years
	21 - 25years
	26 - 30years
	Above 30 years
How is	this farm or enterprise owned?
\bigcirc	Individual
\bigcirc	Family
\bigcirc	Group/Community
\bigcirc	Others
lf othe	rs, please specify the ownership of the farm
What is	s the class#ication of this fish farm?
\bigcirc	Subsistence smallholder fish farm
\bigcirc	Profitorientedsmall-scalefishfarm
\bigcirc	Emergingcommercialfishfarm
\bigcirc	Establishedcommercialorindustriafish farm
\bigcirc	Others

If others, please specify the classfication of the farm	
What type of fish species are reared/produced in this farm?	
Tilapia	
Catfish	
Mirror Carp	
Others	
If others, please specify thefish species reared at the farm	
HowmuchoftheTILAPIAspeciesdoyouproduceperyear(kgperyear)?	
HowmuchoftheCATFISHspeciesdoyouproduceperyear(kgperyear)?	
How much of the MIRROR CARP species do you produce per year (kg per year)?	
If others, how much of the OTHER species do you produce per year (kg per year)? Provide the name of the species and the weight produced e.g. Labeo - 1000kg	
What fish species do you produce more than the others?	
○ Tilapia	
Catfish	
Mirror Carp	
Others	
If others, please specify the species that you produce more than the others	

What is	s the reason behind producing more CATFISH than the other types ofish?
	Itisomnivorous(meaningitcanliterallyeatalmostanything)
	Growsfast
	Tolerates relatively poor water quality (e.g. low oxygen, slightly acidic water etc.)
	It can be raised in high densities, resulting in high net yields
	Itattainshigherpricethanothertypesoffish
	Itcanbesoldliveatthemarket
	It requires less space, time, money etc.
	Has a higher feed conserving rate
	Resistant to diseases
	Donotreproduceintheproductionorrearingsystem
	Thefry/fingerlingsarereadilyavailable
	Others (specify)
	s, please specify the reason behind producing more CATFISH than the other types offsh s the reason behind producing more TILAPIA than the other types offsh?
	Highly marketable
	Tolerant to poor water quality
	Theyeatawiderangeofnaturalfoodorganismsi.e.cangrowonjustfertilization
	Easy tobreed
	Low cost of fry/fingerings
	Others (specify)
If other	s, please specify the reason behind producing more TILAPIA than the other types of fish
Why do	you produce MIRROR CARP more than the other species?
What is	s the reason behind producing more MIRROR CARP than the other types offsh?
	Growwellinlowtemperatureareas
	Tolerateverylowoxygenlevels.
	Ithasaveryhighadaptivecapabilitytobothenvironmentandfood
	Grows big inweight
	Can feed on grass
	Others (specify)

If others	s, please specify the reason behind producing more MIRROR CARP than the other types of sh
	the reason behind producing more of the OTHER types than the tilapia, caffsh or mirror carp? the name of the species and the reason e.g. Labeo - It is highly markatable; easy to grow etc.
What fis	sh species has the least problem to rear?
	Tilapia
	Catfish
\bigcirc	Mirror Carp
	Others (specify)
If other	s, please specify the species considered the least problem to rear
Why do	you consider CATFISH as having the least problems to rear?
	Diseaseresistant-lessattackedbyillness
	Grows veryfast
	High survival rates
	Can withstand poor water quality; survives even in not so clean waters
	Eats wide variety of foods -plants, insects, earthworms, smallerfish, dry rations
	Highly marketable
	Does not reproduce in the pond
	Others (specify)
If others	s, please specify why CATFISH is considered as the least problematic
Why do	you consider TILAPIA as having the least problem to rear?
	Responds well to a variety of feeds
	Cansurviveandgrowwellinawiderangeoftemperature(22to32degreeCelsius) Has
	a high marketdemand
	Easytogetseeds
	High growth rate
	Others
If others	s, please specify why TILAPIA is considered as the least problematic

V	vnydoyouconsiderwirkOkCARPasnavingtneieastproblemtorear?
	Fast growth rates
	Big size at harvest
	Can survive and grow well in cold weather (below 20 degree Celsius)
	Accept a variety of feed types and quality (wide variety of foods-insects, earthworms, dryrations, decaying matter)
	canwithstandawiderangeofwaterquality;survivesinmuddywaters
	Others
If othe	ers, please specify why MIRROR CARP is considered as the least problematic
Why c	lo you consider the OTHER species as having the least problem to rear?
How r	nuch time do you give thefish farming business?
	Full time
	Part time
If part	time, please mention the other activities that you do.
	Livestock Rearing
	Crop Farming
	Employed by Government or Private Entity
	Trading or Business
	Others (Specify)
If othe	ers, please specify the other activities that you do.
What	percentage of your income is derived from thisfish farm?
	0 - 10%
	11 -20%
	21 -30%
	31 -40%
	41 -50%
	51 -60%
	61 -70%
	71 -80%
	81 -90%
	91 - 100%

FISH FEEDS ACCESS AND FEEDINGPRACTICES

Do you fertilize your ponds?
Yes
○ No
If YES, which type of fertilizers do you use?
Organic Fertilizers e.g. cow dung, chicken droppings, composite manure etc.
Inorganic Fertilizers e.g DAP, NPK, Urea etc.
What inorganic fertilizers do you use?
What organic fertilizers do you use?
Do you feed your fish at this farm?
○ Yes
○ No
If yes, which types offish feeds do you use?
Complete manufactured
On-farm feeds
Others
If OTHERS, please specify the type of feeds used
Pick a sample of the dfferent feeds and record the details (e.g. source, name of manufacturer, CP content (if applicable)
If on-farm feed is used, what is the source of the feed?
Made by own-farm
Bought from other farm
If bought from other farm, what is the name of the farm/ farmer?

If made by own farm, who provided you the technical knowledge?	
	Government Aquaculture Extension Worker
	Private Aquaculture Extension worker
	Feed Producer
	Veterinarian
	Research(NAROorUniversity)
	Media
	Others
If others, please specify the source of the technical assistance or advice	

If made by own farm, what ingredients do you use fo ${\it f}$ is h feed production?		
	Mukene/Silver fish	
	Whole maize	
	Maizebran	
	Soybean cake	
	Soybean meal	
	Soybean fullfat	
	Bloodmeal	
	Cotton seed cake	
	Groundnut cake	
	Bone meal	
	DL-Methionine	
	Di-Calcium Phosphate	
	Limestone	
	Lysine-HCL	
	Brewer's grain	
	Pern kerncake	
	Ricebran	
	Cassava	
	Wheat bran	
	Groundnut seeds	
	Millet	
	Palm oil	
	Fish oil	
	Sorghum	
	Fats/Vegetable oil	
	Sunflower cake	
	Caradina	
	Premix	
	Salt	
	Shells	
	Others	

What is the source of the MUKENE?
e.g. name of landing site, market etc.
What is the cost (Ugx/kg) of the Mukene/Silverfish?
What is the source of the soybean cake?
What is the cost (Ugx/kg) of the soybean cake?
What is the source of the soybean meal?
What is the cost (Ugx/kg) of the soybean meal?
If made by own farm, what is the source of the soybean fullfat?
What is the cost (Ugx/kg) of the soybean fullfat?
If made by own farm, what is the source of the blood meal?
What is the cost (Ugx/kg) of the blood meal?
If made by own farm, what is the source of the COTTON SEED CAKE?
What is the cost (Ugx/kg) of the cotton seed cake?
If made by own farm, what is the source of the groundnut cake?
What is the cost (Ugx/kg) of the groundnut cake?

If made by own farm, what is the source of the bone meal?

What is the cost (Ugx/kg) of the bone meal?
If made by own farm, what is the source of the DL-Methionine?
What is the cost (Ugx/kg) of the DL-Methionine?
If made by own farm, what is the source of the Di-Calcium Phosphate?
What is the cost (Ugx/kg) of the Di-Calcium Phosphate?
If made by own farm, what is the source of the limestone?
What is the cost (Ugx/kg) of the limestone?
If made by own farm, what is the source of the lysine-HCL?
What is the cost (Ugx/kg) of the lysine-HCL?
If made by own farm, what is the source of the salt?
What is the cost (Ugx/kg) of the salt?
If made by own farm, what is the source of the brewer's grain?
What is the cost (Ugx/kg) of the brewer's grain?
If made by own farm, what is the source of the whole maize?

What is the cost (Ugx/kg) of the whole maize?
If made by own farm, what is the source of the maize bran?
What is the cost (Ugx/kg) of the maize bran?
If made by own farm, what is the source of the pern kern cake?
What is the cost (Ugx/kg) of the pern kern cake?
If made by own farm, what is the source of the rice bran?
What is the cost (Ugx/kg) of the rice bran?
If made by own farm, what is the source of the cassava?
What is the cost (Ugx/kg) of the cassava?
If made by own farm, what is the source of the wheat bran?
What is the cost (Ugx/kg) of the wheat bran?
If made by own farm, what is the source of the premix?
What is the cost (Ugx/kg) of the premix?
If made by own farm, what is the source of the groundnut seeds?

What is the cost (Ugx/kg) of the groundnut seed?
If made by own farm, what is the source of the millet?
What is the cost (Ugx/kg) of the millet?
If made by own farm, what is the source of the palm oil?
What is the cost (Ugx/litre) of the palm oil?
If made by own farm, what is the source of the fish oil?
What is the cost (Ugx/litre) of thefish oil?
If made by own farm, what is the source of the sorghum?
What is the cost (Ugx/kg) of the sorghum?
If made by own farm, what is the source of the fats/vegetable oil?
What is the cost (Ugx/litre) of the fat/vegetable oil?
If made by own farm, what is the source of the suflower cake?
What is the cost (Ugx/kg) of the surflower cake?
If made by own farm, what is the source of the caradina?

What is the cost (Ugx/kg) of the caradina?		
If made by own farm, what is the source of the shells? What is the cost (Ugx/kg) of the shells?		
What is the cost (Ugx/kg) of the other ingredients?		
What measures do you take to ensure quality of the ingredients sourced?		
Iproducetheingredientsmyself		
Obtainfromreputablesource		
I carry out personal checks at purchasing point		
Others		
If others, please specify the measures taken to ensure the quality of the ingredients		
If the feed is bought from other farm, how do you ascertain quality of the feed?		
Using the FCR		
Monitor fish growth		
Fishresponsetothefeed		
Uniformity of pellet size		
Others		
If others, please specify how you assertain the quality of theish feeds		
Why do you make your own feeds at the farm?		
Itischeapertoproducethefeedsatthefarmthanbuyingalreadymanufacturedfeeds		
Thefeedsonthemarketareofpoorquality		
There is no nearby place to buy the complete feeds		
I was trained in making the feeds		
Others (Specify)		
What is the cost (ugx/kg) of your on-farm feeds?		

Yes
No
yes, what is the proximate composition or nutritional content of the feeds? n terms of CP%, Fat/Lipids/ Fibre/Ash/Dry matter
hat challenges do you face when using on-farm feeds?
Inconsistency in the quality of the feeds
Lack of technical knowledge on on-farm feed production
Lackofaccesstotechnicalknowledgeonon-farmfeedproductionandusage
Noteasytoobtainthequantitiesrequired
Poor quality of ingredients
High cost of ingredients
High cost of energy/power
Limited technical knowledge on operating the machinery
Seasonal fluctuations in availability of ingredients
Limited knowledge on feasible ingredients
Others
others, please specify the challenges of using on-farm feeds
uggest solutions to the challenges
hat challenges do you face when using on-farm feeds bought from other farms?
Inconsistent quality
Poor quality of the feed
Not easy to obtain the quantities needed
Limited technical knowledge about on-farm feed usage
High cost of the feed
Others
others, please specify the challenges faced with using on-farm feeds made from another farm

What commercially manufactured feeds do you use?		
Koudjis/Kaffika Feeds		
Ugachick Fish Feeds		
Jonak Feeds		
KARDC Feeds		
Ranaan Feeds		
Others (specify)		
If others, please specify the name of the feeds		
Why did you choose Koudjis/Kaffika Feeds?		
It is readily availbale in the area		
The ingredients used in the feed arefinely ground.		
The feed is fine i.e. does not have dust		
The pellets are firm and stable on water stability		
The pellets are uniform size and of correct size. Fish can easily swallow them.		
The feed is palatable to thefish with a good taste, smell and feel.		
The feed is cost effective i.e. the FCR is low		
Others (Specify)		
If others, please specify why you choose Koudjis/Kffika Feeds?		
Where do you get or source the koudjis or kaffika feeds from? name of feed, supplier and location if applicable		
What is the unit cost (ugx/kg) of the Koudjis/K#fika feeds?		
What is the proximate protein composition of the Koudjis feed?		

why did you choose Ugachick Fish Feeds?
It is readily availbale in the area
The ingredients used in the feed should befinely ground.
The feed is fine i.e. does not have dust
The pellets are firm and stable on water stability
The pellets are uniform size and of correct size. Fish can easily swallow them.
The feed is palatable to thefish with a good taste, smell and feel.
The feed is cost effective i.e. the FCR is low
Others (Specify)
If others, why do you choose ugachickfish feeds
Where do you get or source the ugachickfish feeds from? name of feed, supplier and location if applicable
What is the unit cost (ugx/kg) of the Ugachick feeds?
What is the proximate protein composition of the Ugachick Fish Feeds?
Why did you choose Jonak Feeds?
It is readily availbale in the area
The ingredients used in the feed should befinely ground.
The feed is fine i.e. does not have dust
The pellets are firm and stable on water stability
The pellets are uniform size and of correct size. Fish can easily swallow them.
The feed is palatable to thefish with a good taste, smell and feel.
The feed is cost effective i.e. the FCR is low
Others (Specify)
If others, please specify why you chose Jonak Feeds?
Where do you get or source the Jonak feeds from? name of feed, supplier and location if applicable
What is the unit cost (ugx/kg) of the Jonak feeds?
What is the proximate protein composition of the Jonak feeds?

Vhy did you choose KARDC Feeds?
It is readily availbale in the area
The ingredients used in the feed should befinely ground
The feed is fine i.e. does not have dust
The pellets are firm and stable on water stability
The pellets are uniforms ize and of correct size. Fish can easily swallow them.
Thefeedispalatabletothefishwithagoodtaste,smellandfeel.
The feed is cost effective i.e. the FCR is low
The feed is cost effective i.e. the FCR is low
Others (Specify)
others, please specify why you chose KARDC feeds?
Where do you get or source the KARDC feeds from? ame of feed, supplier and location if applicable
What is the unit cost (ugx/kg) of the KARDC feeds?
Vhat is the proximate protein composition of the KARDC feed?
What is the proximate protein composition of the KARDC feed? Why did you choose Ranaan Feeds?
Vhy did you choose Ranaan Feeds?
Vhy did you choose Ranaan Feeds? It is readily availbale in the area
Why did you choose Ranaan Feeds? It is readily availbale in the area The ingredients used in the feed should befinely ground.
Why did you choose Ranaan Feeds? It is readily availbale in the area The ingredients used in the feed should befinely ground. The feed is fine i.e. does not have dust
Why did you choose Ranaan Feeds? It is readily availbale in the area The ingredients used in the feed should befinely ground. The feed is fine i.e. does not have dust The pellets are firm and stable on water stability
It is readily availbale in the area The ingredients used in the feed should befinely ground. The feed is fine i.e. does not have dust The pellets are firm and stable on water stability The pellets are uniform size and of correct size. Fish can easily swallow them.
It is readily availbale in the area The ingredients used in the feed should befinely ground. The feed is fine i.e. does not have dust The pellets are firm and stable on water stability The pellets are uniform size and of correct size. Fish can easily swallow them. The feed is palatable to the fish with a good taste, smell and feel.
Why did you choose Ranaan Feeds? It is readily availbale in the area The ingredients used in the feed should befinely ground. The feed is fine i.e. does not have dust The pellets are firm and stable on water stability The pellets are uniform size and of correct size. Fish can easily swallow them. The feed is palatable to thefish with a good taste, smell and feel. The feed is cost effective i.e. the FCR is low
It is readily availbale in the area The ingredients used in the feed should befinely ground. The feed is fine i.e. does not have dust The pellets are firm and stable on water stability The pellets are uniform size and of correct size. Fish can easily swallow them. The feed is palatable to thefish with a good taste, smell and feel. The feed is cost effective i.e. the FCR is low Others (Specify)

What is the proximate protein composition of the RANAAN feed?

Why did you choose other feeds?
It is readily availbale in the area
The ingredients used in the feed should befinely ground.
The feed is fine i.e. does not have dust
The pellets are firm and stable on water stability
The pellets are uniform size and of correct size. Fish can easily swallow them.
The feed is palatable to thefish with a good taste, smell and feel.
The feed is cost effective i.e. the FCR is low
Others (Specify)
If others, please specify why you chose the other feeds above
If others, where do you get or source the feeds from? name of feed, supplier and location if applicable
What is the unit cost (ugx/kg) of the other feeds?
What is the proximate protein composition of the OTHER feed?
If different feeds are used, how are the feeds used/applied? i.e. complete manufactured feeds and on-farm feeds
Alternating
Concurrent
Others (specify)
If others, how are the feeds applied?
If it is a combination, which type of feed is more dominately used and why?
Have you established the food conversion ratio (FCR) of the feeds you use? FCR = the amount of the feed you need to raise a kilo of thesh Yes No
If yes, what is the FCR when you use Koudjis/Kffika feeds?

If yes, what is the FCR when you use Ugachickfish feeds?
If yes, what is the FCR when you use Jonak feeds?
If yes, what is the FCR when you use KARDC feeds?
If yes, what is the FCR when you use Ranaan feeds?
If others, what is the FCR when you use the other feeds?
If yes, what is the FCR of the on-farm feeds?
Do you always obtain and use the right type of feeds needed by the different fish species and stage of growth?
Yes
No
If no, why don't you obtain the right quantity of feeds?
Out of stock on the merket
Too expensive to get what I need
I did not know different species require different types and quantities of feeds
I have been giving different species of fish same feed and have not had any problem
Others
If others, please specify why you do not obtain the right quantity of feeds

What stages of fish do you have at the farm?			
	Larval		
	Fry		
	Fingerlings		
	Juveniles		
	Adult		
	Brood stock		
How o	ften do you feed the larval fish?		
	Once a day		
	Twice a day		
	Thrice a day		
	Four times a day		
	Five times a day		
	Above 5X		
	What is the proximate composition or nutritional content of the larval feed? e.g. Protein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable)		
How often do you feed the fry fish?			
How o	iten do you feed the fry fish?		
How o	ften do you feed the fry fish? Once a day		
How o			
How o	Once a day		
How o	Once a day Twice a day		
How o	Once a day Twice a day Thrice a day		
How o	Once a day Twice a day Thrice a day Four times a day		
What i	Once a day Twice a day Thrice a day Four times a day Five times a day		
What i	Once a day Twice a day Thrice a day Four times a day Five times a day Above 5x sthe proximate composition or nutritional content of the fry feed?		
What i	Once a day Twice a day Thrice a day Four times a day Five times a day Above 5x s the proximate composition or nutritional content of the fry feed? stein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable)		
What i	Once a day Twice a day Thrice a day Four times a day Five times a day Above 5x Is the proximate composition or nutritional content of the fry feed? Itein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable) Iten do you feed thefingerling fish?		
What i	Once a day Twice a day Thrice a day Four times a day Five times a day Above 5x s the proximate composition or nutritional content of the fry feed? stein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable) Iten do you feed the fingerling fish? Once a day		
What i	Once a day Twice a day Thrice a day Four times a day Five times a day Above 5x Is the proximate composition or nutritional content of the fry feed? Itein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable) Iten do you feed the finger ling fish? Once a day Twice a day		
What i	Once a day Twice a day Thrice a day Four times a day Five times a day Above 5x Is the proximate composition or nutritional content of the fry feed? Itein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable) Iten do you feed thefingerling fish? Once a day Twice a day Thrice a day		

e.g. Pro	e.g. Protein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable)	
How often do you feed the juvenilefish?		
	Once a day	
	Twice a day	
	Thrice a day	
	Four times a day	
	Five times a day	
	Above 5X	
	s the proximate composition or nutritional content of the juvenile feed? otein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable)	
How o	ften do you feed the Adultfish?	
	Once a day	
	Twice a day	
	Thrice a day	
	Four times a day	
	Five times a day	
	Above 5X	
	s the proximate compostion or nutritional content of the adulfish feed? otein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable)	
How o	ften do you feed the brood stockfish?	
	Once a day	
	Twice a day	
	Thrice a day	
	Four times a day	
	Five times a day	
	Above 5X	
	s the proximate composition or nutritional content of the brood stocksh feed? otein Content - 57%, Moisture - 10%; Ash - 5% etc. Look at the label (if applicable)	

What is the proximate composition or nutritional content of the ingerling feed?

What method do you use to feed thefish?	
By hand broad casting	
Automated feeding	
Demand feeding	
Feed by response	
Others	
If others, please specify the method used to feed thefish	
How do you determine the amount of feed to give your fish?	
Weather	
Fish response to the feeds	
Size of fish (percentage body weight of the fish)	
Age of fish	
Others	
What is your targeted average market size of your fish harvest per cultured species? e.g. Catfish - 1000g; Tilapia - 350g etc	
How long does it take you to make thisfish attain the targeted market weight per specie	<u> </u>
Do you keep feeds and feeding records?	
Yes	
No No	
What records do you keep?	
Type of feeds	
Cost of feeds	
Source of feeds	
Date of delivery	
Amount of feed per day per pond/rearing unit	
Amount of fish harvested per rearing unit	
Others	

How do you use the feeds and feeding records that you keep?		
Determine feeding rates		
Determine the FCR		
Profitability of the farm		
Toplanaheadforthenextproductioncycle		
Determine the selling price of the fish		
Others		
f others, please specify the use of the feeds and feeding records		
Why don't you keep records?		
Not important		
I do not know how to write and record		
It is time consuming		
Ihavenoideaonwhattorecordit		
Others		
f others, please specify why you do not keep the feed and feeding records		
Do you keep fish production records?		
Yes		
✓ Yes✓ No		
O No		
No Whydon'tyouhaveproducionrecords?		
No Whydon'tyouhaveproducionrecords? I have no idea on what to record it		
No Whydon'tyouhaveproducionrecords? I have no idea on what to record it It is timeconsuming		
Whydon'tyouhaveproducionrecords? I have no idea on what to record it It is timeconsuming Idonotknowhowtowriteandrecord		

lf yes,	what production records do you keep?
	Amountorvolumeoffishproducedperrearingunit
	Stockingrecords
	Harvesting records
	Health records
	Survival rates
	Averagebodyweight(ABW)andsizecategories
	The length of productioncycle
	Others
If othe	rs, please specify the production records kept at the farm
How d	o you use the production records at the farm?
	Monitor fish growth
	Determine the FCR
	Schedule production
	Plan for marketing of fish
	Financial Analysis
	Determine profitability
	Access credit
	Planforthenextproductioncycle
	Adjust the businessplan
	Others
Do you	ı keep financial records?
\bigcirc	Yes
\bigcirc	No
What f	inancial records do you keep?
	Cash Sales records
	Salary & Wages
	Credit Sales records
	Credit sales
	Cost of feeds
	Others (Specify)

If others, please specify thefinancial records that you keep How do you use the financial records that you keep? Financial analysis Profitability Aceess to credit To plan fpr the next prodution cycle To adjust in the business plan Others If others, please specify what how useful the inancaial records are Whydon'tyoukeepfinancialrecords? Whydon'tyoukeepfinancialrecords? Not important Time consuming I do not know how to write Others (specify) If others, please specify why you do not keepfinancial records What do you suggest to improve on production and inancial record keeping? What challenges do you face in acccesing fish feeds? High transportation costs Unreliabity of supply High cost of fish feeds Lack of knowledge on feed usage Poor quality feeds High transport costs Others If others, please specify the challenges in accessingish feeds

What challenges do you face in utilisingfish feeds?
Estimating the correct amount to feed
Adjusting the ration
Selecting the right feed
Others
If others, please specify the challenges faced during utilising feed
What solutions do you propose to address the challenges?
Is on-farm feed production a possible solution for improving access to fish feeds?
Yes
No
How will on-farm feed production improve access to the fish feeds?
Ifno,why
Whatisthepotentialbenefitofwomenandyouthinvolvementinon-farmfeedproduction?
Do you have any particular training related to environment management for yourfish farming business?
Yes
○ No
Do you have an Environment Management Plan for youfish farming business?
Yes
○ No
Is your fish farm or fish farming business cleared by NEMA through EIA process?
Yes
○ No
Which organization monitors your environment management activities?
NEMA
MAAIF
Local Authorities
Others

If others, please specify the organisations that monitor environment management activities

https://ee.kobotoolbox.org/x/#4kS1bBSj

Do you	u think use offish feeds has any negative effect on the water bodies and the environment?
\bigcirc	Yes
\bigcirc	No
If yes,	what negative effects do the fish feeds have on the water bodies and the environment?
If no, v	why do you think feeds have no negative fects on the water bodies and the environment?
How d	o you handle your effluents (liquid waste) from your fish farm?
	Released without treatment to a specially constructed pond
	Flows out on its own to outside the farm to the wetland or other natural water course
	It flows out to specially constructed ponds for treatment and then released into natural water course
	Other (specify
If othe	ers, please specify how you handle your effluents (liquid waste) from your fish farm
Have y	ou received any advice onfish feeds and their usage?
\bigcirc	Yes
\bigcirc	No
Who p	rovided the advice on thefish feeds?
	Government Aquaculture Extension Worker
	Private Extension Service Providers (PESPs)
	Veterinarian
	Feed producer
	Fellow farmer
	Feed distributor/trader
	Others
If othe	rs, please specify the provider of advice orfish feeds
How o	ften do the providers of advice on the fish feeds visit you?
Are yo	ou aware of the Private Extension Service Providers (PESPs)?
\bigcirc	Yes
\bigcirc	No

lf Priva	te Extension Service Providers (PESPs), are they registered and certied by DiFR - MAAIF
	Yes
	No
	Do not know
Who a	re PESPs, their contacts and where are they located or found?
Do you	store feeds at the farm?
\bigcirc	Yes
\bigcirc	No
Where	are the feeds stored?
	Store dedicated to onlyfish feeds
	Storemixedwithotheranimalfeedsandfarminputs
	Others
How is	the state of the dedicated store?
	Aerated
	Pallets available
	On a bare floor
	Free from rodents
	Others
f othe	rs, please specify the state of the store
For ho	w long do you store the feeds?
	Lessthan1month
	2 - 3months
	4 - 6months
	Over 6 months
How m	uch feed by volume do you use a production cycle?
	0.5 - 1.0 ton
	>1.0 - 3.0 tons
	> 3.0 - 5.0 tons
	> 5.0 tons

Do you weigh feeds before feeding?
Yes
No No
Do you sample fish regularly?
Yes
No No
Do you check for expiration date when buying fish feeds?
Yes
No No
Do you examine the form of the feed for caking, moulding, change of color etc.?
Yes
No
What challenges do you face in accessing technical advice on fish feeds?
Few technical personnel
Extension personnel do not visit
Use very scientific language not easy to comprehend
extension workers ask for money which I do not have
No advice at all
Quack extension workers
Others
If others, please specify the challenges faced in accessing technical advice on fish feeds
How can the challenges be addressed?
Howcandigitalmediachannelsormobileappbeusedtopromoteaccess,utilizationandotherrelevantinformationon fishfeedsamongvariouschainactors?
RESEARCH AND ACADEMIA
NameofOrganisation
Areyouawareofanyresearchworkcarriedoutonfeeds?
Yes
O No

Nhat k	ind of research has been carried out?		
	Appropriatefeedingregimesfordfferentfishspecies		
	Alternativeplantingredientsforfeedproduction		
	Alternative animal (insect larvae) ingredients for feed production		
	Improving quality of feeds		
	Use of less competitive potentialfish feedingredients		
	Replacement of expensivefishmeal with less costly alternative proteinsources		
	Performance evaluation of dfferent types of fishf eed		
	Provided ingredients		
	Others		
f othe	rs, please specify the kind of researh undertaken on feeds		
How h	ave the farmers participated in the research?		
	Not participated		
	Proposing possible fish feed research agenda		
	Providing production facilities (ponds, tanks, cages) for on-farm trials and feed developemnt		
	Sourcing ingredients		
	Hosted on-farm trials		
	Identificationofalternativepotentialfishfeedingredients		
	Respondent toquestionnaires		
	Feeding of fish and keeping daily records during on-farm trials		
	Others (specify)		
f othe	f others, please specify how the farmers have participated in the research		
How do	you rate the relevance of the research carried out on the feeds?		
	Very relevant		
	Fairly relevant		
	Not relevant		
Why is	the research rated "VERY RELEVANT"?		
Why is	the research rated "FAIRLY RELEVANT"?		
Why is	the research rated "NOT RELEVANT"?		

what fish feeds related problems has the research tackled/solved?	
Feed formulations	
Use of non-convectional or potential ingredients forfish feeds	
Others	
If others, please specify thefish feed related problems that research has tackled/solved	
Which other aspects offish feeds should research handle and why?	
Replacement of fish meal with other alternative sources of protein	
Others	
If others, please specify the other aspects of research that should be handled on feeds	
Why should those aspects of research onfish feed be handled?	
What challenges are faced in research work orfish feeds?	_
Besides fish meal, what are the potential alternative fish feed ingredients?	
What is the role of smallholderfish farmers (youth and women) in fish feed production towards t subsistence to commercialfish farming?	ransition from
How should feed production and usage be carried out to ensure environmental sustainability?	•
Do you provide any training onfish feeds?	
Yes	
○ No	
If No, why don't you provide training on fish feeds?	
Which topics do the trainings cover?	•
What type of trainees do you offer the training?	•
Fish farmers	
Feed producers	
Fish feed traders	
Others	
If others, please specify the trainees	

How often do you provide training?		
Who initiates the training?		
How do intending trainees know about the trainings?		
Where are the trainings conducted from?		
On average, how long do the training sessions last?		
What is the average cost of a particular training?		
What challenges do you encounter in offering training on fish feeds?		
Suggest solutions to address the challenges		
FEED INGREDIENT SUPPLIER		
When did you start dealing in the supply of ingredients?		
Whatpromptedyoutostartthebusiness?		
Whatpromptedyoutostartthebusiness?		
Supplement my income		
I saw an opportunity		
Hobby		
Others (specify)		
If others, please specify what prompted you to start the business		

ngredients forfish feed production do you supply? I that you supply
Mukene/Silver fish
Whole maize
Maizebran
Soybean cake
Soybean meal
Soybean fullfat
Bloodmeal
Cotton seed cake
Groundnut cake
Bone meal
DL-Methionine
Di-Calcium Phosphate
Limestone
Lysine-HCL
Brewer's grain
Pern kerncake
Ricebran
Cassava
Wheat bran
Groundnut seeds
Millet
Palm oil
Fish oil
Sorghum
Fats/Vegetable oil
Sunflower cake
Caradina
Premix
Salt
Shells
Others

If others, please specify the ingredients supplied
Where do you get the other ingredients from?
What quantities of the other ingredients do you buy?
Where do you get the salt from?
What quantities of salt do youbuy?
Where do you get the premixfrom?
What quantities of premix do you buy?
Where do you get the caradina from?
What quantities of caradina do you buy?
Where do you get the surflower cake from?
What quantities of surflower cake do you buy?
Where do you get the fats/vegetable oil from?
What quantities of fats/vegetable oil do you buy?
Where do you get the sorghum from?
What quantities of sorghum do you buy?
Where do you get thefish oil from?
What quantities offish oil do you buy?
Where do you get the palm oil from?
What quantities of palm oil do you buy?
Where do you get the millet from?

What quantities of millet do you buy?	
Where do you get the groundnut seeds from?	
What quantities of groundnut seeds do you buy?	
Where do you get the wheat bran from?	
What quantities of wheat bran do you buy?	
Where do you get the cassava from?	
What quantities of cassava do you buy?	
Where do you get the rice bran from?	
What quantities of rice bran do you buy?	
Where do you get the pern kern cake from?	
What quantities of pern ken cake do you buy?	
Where do you get the brewer's grain from?	
What quantities of brewer's grain do you buy?	
Where do you get the lysine-HCL from?	
What quantities of lysine-HCL do you buy?	
Where do you get the limestone from?	
What quantities of limestone do you buy?	
Where do you get the Di-Calcium Phosphate from?	
What quantities of Di-Calcium Phosphate do you buy?	
Where do you get the DL-Methionine from?	

What quantities of DL-Methionine do you buy?
Where do you get the bone ash from?
What quantities of bone ash do you buy?
Where do you get the groundnut cake from?
What quantities of groundnut cake do you buy?
Where do you get the cotton seed cake from?
What quantities of cotton seed cake do you buy?
Where do you get the blood from?
What quantities of blood do you buy?
Where do you get the soybean fullfat from?
What quantities of soybean fullfat do you buy?
Where do you get the soybean meal from?
What quantities of soybean meal do you buy?
Where do you get the soybean cake from?
What quantities of soybean cake do you buy?
Where do you get the mukene/silver fish from? Probe for specfic area e.g. landing site, market, households etc.
What quantities of mukene/silverfish do you buy? e.g. 1000kg every month
Where do you get the whole maize from? Probe for specfic area e.g. landing site, market, households etc.
What quantities of whole maize do you buy?

Where do you get the maize bran from?		
What q	uantities of whole maize do you buy?	
How do	you tell the quality and nutritional content of your ingredients?	
	I trust the sources/producers of the ingredients	
	I depend on what is already published and known in literature or general public	
	I ensure that supply and delivery of ingredients are based on set safety and quality control measures.	
	I have a portable nutritional analyser	
	I use a moisture analyser	
	Check every batch using a metallic prod	
	Isendsamplesoftheingredientstolaboratoryfortesting	
	Others	
If other	s, please specify how you tell the quality and nutritional content of your ingredients	
How do	you handle your effluents (liquid waste) from processing of your ingredients?	
	Releasewithouttreatmenttoaspeciallyconstructedwastepit	
	Flowsoutonitsowntooutsidethefacility	
	Flows out and directly to the natural water course	
	Itflowsouttospeciallyconstructedpondsfortreatmentandthereleasedintonaturalwatercourse	
	Otherspecify	
If other	s, please specify how you handle your & luents (liquid waste) from processing of your ingredient s	
How do	you handle the solid waste from your ingredient processing activities?	
	Depositedoutsidethefacilityandferriedtothemunicipallandill	
	Depositedoutsidethefacility,driedandburnt	
	Recycled and taken by farmers as organic manual	
	Deposited outside the facility and left to rot	
	Depositedandregularlyburiedintheground	
	Other(specify)	
If other	s, please specify how you handle the solid waste from your ingredient processing activities	

What is	s the state of your ingredients in terms of mixture with non-ingredient materials?
	Pure grade, human edible level/state
	Pure grade, animal edible level/state
	Mixed with sand and other non-nutritional materials as demanded by clients
	Deliberately contaminated
	Others
If othe	rs, please specify the state of the ingredients
How d	o you transport the ingredients?
	On foot
	Bicycle
	Motorcycle
	Private vehicle (ownvehicle/hired)
	Publictransport
	Others(Specify)
If othe	rs, please specify the means of transport
How d	o you store the ingredients?
	The store is well aerated
	Moisture free
	Vermin control
	Others
If othe	rs, pleasespecify
How d	o you package the ingredients for delivery and sale?
	20 kg polythenes bags with an inner lining
	50 kg polythenes bags with an inner lining
	100 kg polythenes bags with an inner lining
	As requested by the customer (Customized)
	Others
If other	rs, please specify the package

How do you brand the ingredients for delivery and sale?		
	Don't brand	
	Inscribed labels on the packaging	
	Writeonthepackagingusingamarker/pen	
	Putapieceofpaperinsidethebag	
	Use different colours of the packaging	
	Use different colours of the markers	
	Others (Specify)	
If othe	rs, please specify the how the ingredients are branded	
Who a	re your customers of the ingredients?	
	Feed Producers	
	Producer Organisations (POs)	
	Farmers	
	Others	
If othe	rs, please specify the customers of the ingredients	
	rs, please specify the customers of the ingredients	
	aind of feed producers do your supply?	
	cind of feed producers do your supply? Fish Feed producers	
	Fish Feed producers Animal feed producers	
	Fish Feed producers Animal feed producers Human feed producers	
What k	Fish Feed producers Animal feed producers Human feed producers MiddlemenorSuppliersdfferentfeed producers	
What k	Fish Feed producers Animal feed producers Human feed producers MiddlemenorSuppliersdfferentfeed producers Others	
What k	Fish Feed producers Animal feed producers Human feed producers MiddlemenorSuppliersdfferentfeed producers Others rs, please specify the kind of feed producers	
What k	Fish Feed producers Animal feed producers Human feed producers MiddlemenorSuppliersdfferentfeed producers Others rs, please specify the kind of feed producers ransaction modalities do you mainly engage in with your customers?	
What k	Fish Feed producers Animal feed producers Human feed producers MiddlemenorSuppliersdfferentfeed producers Others rs, please specify the kind of feed producers ransaction modalities do you mainly engage in with your customers? Purchase orders	

Do you always supply the ingredients to your customers (the local feed producers) in a timely and consistent manner?
Yes
○ No
If no, why do you fail to supply the ingredients?
I don't have enough stock
Fluctuating prices
Others
If others, please specify why you fail to supply the ingredients
Do you have any particular training related to environment management of feed ingredient handling, processing, supply and delivery business?
Yes
○ No
DoyouhaveanEnvironmentManagementPlanforyourfeedingredientsourcing,handling,processing,storageand deliverybusiness?
Yes
○ No
What challenges you encounter in the fish feed ingredient business?
Fluctuating prices
Scarcity of raw materials
Poor quality materials
Not enough capital to stock
Others
If others, please specify the challenges you encounter in the business
How can the challenges be addressed?
For the crop based ingredients, what measures do you suggest for increasing production?
EncourangingandpromotingcontractfarmingwithPOsofcropfarmers
Others
If others, please specify the measures

Are there diffe	erent roles for men, youth and women in the ingredients supply business?
O Yes	
O No	
If yes, which s	specFic activities do women carry out in the fish feed ingredients supply business?
Sorting	1
Drying	
Packag	ging
Labelli	ng
Gradin	g
Others	
If others, plea	se specify the roles of women
If yes, which s	specfic activities do youth carry out in the fish feed ingredients supply business?
Sorting	1
Drying	
Packag	ging
Labelli	ng
Gradin	g
Loadin	g
Grindir	ng
Mixing	
Others	
lf others, plea	se the role of youth
What challeng	ges do women employed in thefish feed ingredients supply business face?
How can the c	hallenges be addressed?
What challeng	ges do YOUTH employed in thefish feed ingredients supply business face?
How can the c	hallenges be addressed?
Which opport	unities exist for WOMEN in thefish feed ingredients supply business?

Which opportunities exist for YOUTH in the fish feed ingredients supply business?	
Pick some samples are record details (source, ingredient name etc.) for laboratory analysis	
LABORATORY Name of the laboratory	
Who are your clients?	
Feed processors	
Farmers	
Ingredient Suppliers	
Traders	
Public Institutions	
Others	
If others, please specify the clients	
What products or feed products do you analyze?	
Ingredients	
Feeds	
Others	
If others, please specify the products that you analyse	
What type of feeds do you analyze?	
Animal feeds	
Poultry feeds	
Fish feeds	
Others	
If others, please specify the type of feeds that you analyze	

What in	ngredients do you analyze?
	Mukene
	Soybean
	Maize bran
	Cotton seed cake
	Sunflower
	Rice bran
	Others
If other	rs, please specify the type of ingredients
	our laboratory conduct or have the capacity to conductfish feed or ingredients analysis in terms of nutrient sition?
\bigcirc	Yes
\bigcirc	No
What le	evel of analysis can the laboratory do?
	Proximate
	Profiling
What p	rofiling can the laboratory do?
	Amino acid profiling
	Fatty acid profiling
	Others
If other	s, please specify the kinds of profiling
If yes,	list the categories and proportions (%) of your customers?
	Fish Feed Producers
	Fish Feed Ingredients Dealers
	Fish Farmers
	Regulators
	Scientists/Researchers
	Others
If other	re pleasespecify

wnati	is your average time for providing pi	roximate results to customers?
	Instant (less than an hour)	
	Within a day	
	Less than a week	
	A week to two weeks	
	Within a month	
	Others	
If othe	ers, please specify the time to relea	ase proximate analysis results
What i	is the average cost of proximate ana	alysis for nutrition composition?
What i	is your average time for providing p	rolled results to customers?
	Less than a week	
	One week	
	Two weeks	
	Three weeks	
	Four weeks	
	Others	
If othe	ers, please specify the period it takes	s to pr 6 ile feed or ingredient sample
What i	is the average cost of profiling for	nutrition composition?
How m	nany laboratory personnel do you er	mploy?
How m	nany of them are women?	
Do you	u think they are enough?	
\bigcirc	Yes	
\bigcirc	No	
IfNo,w	/hv?	

What challenges do you face in running the lab business?
Staff
Low turn-up of clients
Equipment brake down
Expensive equipment
High taxes
Others
If others, please specify the challenges you face in running the laboratory
FISH FEED PRODUCTION
Name of the feed factory
What was the motive for its establishment?
What is the value (ugx/usd) of the establishment?
Are you a registered feed producer?
Yes
○ NO
Do you have machinery?
Yes
○ No
What is its installed capacity?
Is the machinery currently running at the installed or designed capacity?
Yes
No
If no, how is it running?
Over capacity
Under capacity
Why is it running over the installed capacity?

Why is it running under or below the installed capacity?			
What is your daily feed production (tonnes or kg)?			
What is your annual production capacity (metric tonnes)?			
\bigcirc	Less than 1		
\bigcirc	1 - 5		
\bigcirc	6 - 10		
\bigcirc	11 -15		
\bigcirc	16 -20		
\bigcirc	21 -25		
\bigcirc	26 -30		
\bigcirc	31 -35		
\bigcirc	36 -40		
\bigcirc	41 -45		
\bigcirc	46 -50		
\bigcirc	Above 50		
Who a	re your suppliers of ingredients?		
	Local Suppliers		
	Regional Suppliers		
	International Suppliers		

Which	of the following ingredients do you use in the production offish feeds?
	Mukene/Silver fish
	Whole maize
	Maizebran
	Soybean cake
	Soybean meal
	Soybean fullfat
	Bloodmeal
	Cotton seed cake
	Groundnut cake
	Bone meal
	DL-Methionine
	Di-Calcium Phosphate
	Limestone
	Lysine-HCL
	Brewer's grain
	Pern kerncake
	Ricebran
	Cassava
	Wheat bran
	Groundnut seeds
	Millet
	Palm oil
	Fish oil
	Sorghum
	Fats/Vegetable oil
	Sunflower cake
	Caradina
	Premix
	Salt
	Shells
	Others

Where do you get the other ingredients from?
Where do you get the shells from?
Where do you get the salt from?
Where do you get the premix from?
Where do you get the caradina from?
Where do you get the surflower cake from?
Where do you get the fat/vegetable oil from?
Where do you get the sorghum from?
Where do you get thefish oil from?
Where do you get the palm oil from?
Where do you get the millet from?
Where do you get the groundnut seeds from?
Where do you get the wheat bran from?
Where do you get the cassava from?
Where do you get the rice bran from?
Where do you get the pern kern cake from?
Where do you get the brewer's grain from?
Where do you get the lysine-HCL from?
Where do you get the limestone from?
Where do you get the Di-Calcium Phosphate from?

Where	do you get the DL-Methionine from?
Where	do you get the bone ash from?
Where	do you get the groundnut cake from?
Where	do you get the cotton seed cake from?
Where	do you get the blood from?
Where	do you get the soybean fullfat from?
Where	doyougetthesoybeanmealfrom?
Where	doyougetthesoybeancakefrom?
Where	do you get the maize branfish from?
Where do you get the whole maize from?	
Where	do you get the mukene/silverfish from?
How de	o you determine the dfferent proportions of ingredients you apply to your feed?
	Follow a standard formulae from feed formulation experts
	From general awareness and experience acquired from other feed producers
	Depends on farmer or client demands
	Use my own knowledge and experience in feed production
Do you	ı have any contractual obligation with the supplier?
	Yes
\bigcirc	No
For wh	nich type offish do you produce the feeds?
	Tilapia
	Common Carp
	Catfish
	Others

if others, please specify the type oπish
Which of the following methods of production do you use?
Extrusion (Floating pellets)
Pelleting (Sinking pellets)
Grinding (Powder feed)
Others
If others, please specify the method of feed production
What is the price (ugx/kg) of thefloating feeds?
Whatistheprice(ugx/kg)ofthesinkingfeeds?
Whatistheprice(ugx/kg)ofthepowderfeeds?
Do you have the capacity to ascertain the nutritional profile of the feeds produced?
Yes
○ No
If no, where can you access such services
Pick samples, record and package for laboratory analysis
Which quality assurance measures do you have in place for the feeds you produce?
What challenges do you face duringfish feeds production?
High power tarrifs
Lack of adequate supply of ingredients
Lack of skilled labour
Others
If others, please specify the challenges faced
What are the possible recommendations or solutions to the challenges?

Have you conducted an Environmental Impact Assessment (EIA)?
Yes
○ No
In what year did you conduct the EIA?
How many employs do you employ in the feed production sector?
What are the terms of employment? Permanent Temporary
How many women do you employ?
How many women are employed on a permanent basis?
How many women are employed on a temporary basis?
Are there different roles for men and women during feed production in your industry?
Yes
○ No
What roles do the women play in feed production?
Finance management
Administration
Ingredient sorting
Ingredient loading
Mixing
Grinding/Milling
Pelleting/Extrusion
Drying
Cooling
Packaging
Storage or Bulking
Others

 $3/30/2020\,$ LOT 3 - EU PESCA PROJECT If others, please specify the roles of women in feed production

What s	pecific problems affect equitable engagement of women and youth in fish feed production?
	Lack of capital
	Lack of skills
	Bias in terms of access to capital and other required resources
	Bias in capacity building
	Lack of interest and opportunities
	Cultural norms and or bias against women and youth.
	Other (specify)
If other	rs, please specfic problems affect equitable engagement of women and youth in fish feed production
What a	re the remedies and opportunities that can enhance women and youth involvement in feed production?
	Affirmative action in terms of financial support to women and youth.
	Selectivetrainingbiasedtowardswomenandyouth.
	Exposure and provision of information to women and youth.
	Placementprogrammeforwomenandyouthinfeedproductionbusinesses.
	Provisionofmachinery,BMPsandtechnicalsupporttowomenandyouth.
	Policyandregulatoryinterventionbiasedtowardwomenandyouth.
	Others
If other	rs, please specify the remedies and opportunities that can enhance women and youth involvement in feed ction
	can be done to promote and increase opportunities for socially just, safe and rewarding youth employment and reneurship infish feed industry
	Affirmative action in terms of financial support to youth
	Exposure and provision of information to youth.
	Placementprogrammeforwomenandyouthinfeedproductionbusinesses.
	Provisionofmachinery,BMPsandtechnicalsupporttoyouth.
	Policyandregulatoryinterventionbiasedtowardyouth.
	Others
	rs, please specify what can be done to promote and increase opportunities for socially just, safe and rewarding employment and entrepreneurship infish feed industry

3/30/2020 LOT 3 - EU PESCA PROJECT Mention specific opportunities women and youth can engage in as part of thefish feed production business? Suppliers and producers of ingredients Owners and operators of SMEs feed producing establishments Feed depot owners and managers. Skilled workers and business managers. Others If others, please specify the opportunities women and youth can engage in as part of thesh feed production business Suggest the areas for required training and technical support for enhancing women and youth's involvement in feed production value chain Business managerial skills. Investment management and planning. Technical feed production skills Feed ingredient sourcing and management Contractual operations and management

If others, please specify areas for required training and technical support for enhancing women and youth's

https://ee.kobotoolbox.org/x/#4kS1bBSj

Others (specify)

involvement in feed production value chain

What type of energy do you use in feed production?
Hydro Electric Power
Solar Power
Fossil Fuel (Generator)
Others
If others, please specify the type of energy
What activities do you use the hydro electric power?
Ingredient sorting
Ingredient loading
Mixing
Grinding/Milling
Pelleting/Extrusion
Drying
Cooling
Packaging
Storing/Bulking
Others
If others, please specify the activities hydro power is used
What activities do you use the solar power?
Ingredient sorting
Ingredient loading
Mixing
Grinding/Milling
Pelleting/Extrusion
Drying
Cooling
Packaging
Storing/Bulking
Others
If others, please specify the activities that solar power is used

What a	activities do you use the fossil fuel (generator)?
	Ingredient sorting
	Ingredient loading
	Mixing
	Grinding/Milling
	Pelleting/Extrusion
	Drying
	Cooling
	Packaging
	Storing/Bulking
	Others
If othe	rs, please specify the activities that fossil fuel (generator) is used
What i	s the unit cost of hydro electric power (KWh) in feed production?
What i	s the unit cost of fossil fuel (generator) (litres/hour) in feed production?
How Io	ong (months) did it take you to connect the hydro electric power?
\bigcirc	≤ 1 month
\bigcirc	2 -3
\bigcirc	4 -5
\bigcirc	6 -7
\bigcirc	Above 7
What v	was the cost (in ugx) of installation?
What e	energy related challenges do you encounter?
	High power charges
	High power charges Unrealiable supply
	Unrealiable supply

Suggest any recommendations or solutions to the problems

FISH FEED IMPORTERS	
In what year did you start importing fish feeds into the country?	
From which country do you import the fish feeds?	_
What is the brand name of the feeds you import?	
What type of feeds do you import? Pellets Powder Crumble Others	-
If others,pleasespecify	
Whatisthenutritionalcontentofthevariousfeedtypes?	-
How much fish feeds (tons/kg) do you import in a particular consignment?	_
What is the cost (ugx/kg) of the feeds imported per ton?	_
How often do you import thefish feeds?	_
What is the selling price of the feeds?	_
What are the distribution channels/networks of youfish feeds?	-

Which	districts do your customers mainly come from?
	Abim
	Adjumani
	Agago
	Alebtong
	Amolatar
	Amuria
	Amuru
	Apac
	Arua
	Bududa
	Budaka
	Bugiri
	Bukwa
	Bulisa
	Bundibugyo
	Bushenyi
	Busia
	Butalenja
	Dokolo
	Gulu
	Hoima
	Ibanda
	Iganga
	Jinja
	Kaabong
	Kabale
	Kabarole
	Kaberamaido
	Isingiro
	Kalangala
	Kaliro
	Kampala

3/30/2020	
	Kamuli Kamwenge
	Kanungu
	Kapchorwa
	Kasese
	Katakwi
	Kayunga
	Kibaale
	Kiboga
	Kiruhura
	Kisoro
	Kitgum
	Koboko
	Kotido
	Kumi
	Kyenjojo
	Lira
	Luwero
	Maracha
	Masaka
	Masindi
	Mayunge
	Mbale
	Mbarara
	Mityana
	Moroto
	Moyo
	Mpigi
	Mubende
	Mukono
	Nakapiripirit
	Nakaseke
	Nakasongola

Namutumba

3/30/2020		LOT 3 - EU PESCA F
	Nebbi	
	Ntungamo	
	Oyam	
	Pader	
	Pallisa	
	Rakai	
	Rukungiri	
	Sembabule	
	Sironko	
	Soroti	
	Tororo	
	Wakiso	
	Yumbe	
	Agago	
	Alebtong	
	Amudat	
	Buhweju	
	Buikwe	
	Bukedea	
	Bukomasimbi	
	Bulambuli	
	Butambala	
	Buvuma	
	Buyende	
	Gomba	
	Kalungu	
	Kibuku	
	Kiryandongo	
	Kole	
	Kween	
	Kyankwazi	
	Kyegegwa	
	Lamwo	
	Luuka	

3/30/2020		LOT 3 - EU PESCA
	Lwengo	
	Lyantonde	
	Manafwa	
	Mitooma	
	Namayingo	
	Napak	
	Ngora	
	Nwoya	
	Otuke	
	Rubirizi	
	Serere	
	Sheema	
	Zombo	
	Kagadi	
	Kakumiro	
	Omoro	
	Rubanda	
	Namisindwa	
	Pakwach	
	Butebo	
	Rukiga	
	Kyotera	
	Bunyangabu	
	Nabilatuk	
	Bugweri	
	Kasanda	
	Kwania	
	Kapelebyong	
	Kikuube	
	Obongi	
	Kazo	
	Rwampara	
	Kitagwenda	
	Madi-Okollo	

3/30/2020	LOT 3 - EU PESCA PROJECT	
Karenga		
Lusot		
Do you have any customers from outside Uga	anda?	
Yes		
○ No		
Which countries are they?		
What untapped opportunities exist in the fish to	feed value chain?	
What challenges do you encounter in the fish		
Suggest the solutions to the challenges		
FISH FEED TRADERS/STOCKIS	STS - DISTRIBUTION	
» Location		
District		
Sub County/TownCouncil/Municipality		
Parish/Ward/Division		
Cell/Village		
In which year did you start trading in fish fe	eeds?	
Where do you buy thefish feeds?		
What is the brand name of the feeds that you	trade in?	
What type of feeds do you trade in?		
Powder		
Crumble		
Pellet		
Others		
If others, please specify the type of feeds		
What is the nutritional content of the variou	us feed types?	

On average, how muchfish feeds do you sell in a year?	
What is the selling price of the feeds?	
Who are the different categories of customers of your fish feeds?	
What are your distribution channels/network of yourfish feeds?	

Which	districts do your customers mainly come from?
	Abim
	Adjumani
	Agago
	Alebtong
	Amolatar
	Amuria
	Amuru
	Apac
	Arua
	Bududa
	Budaka
	Bugiri
	Bukwa
	Bulisa
	Bundibugyo
	Bushenyi
	Busia
	Butalenja
	Dokolo
	Gulu
	Hoima
	Ibanda
	Iganga
	Jinja
	Kaabong
	Kabale
	Kabarole
	Kaberamaido
	Isingiro
	Kalangala
	Kaliro
	Kampala

3/30/2020		LOT 3 - EU P
	Kamuli	
	Kamwenge	
	Kanungu	
	Kapchorwa	
	Kasese	
	Katakwi	
	Kayunga	
	Kibaale	
	Kiboga	
	Kiruhura	
	Kisoro	
	Kitgum	
	Koboko	
	Kotido	
	Kumi	
	Kyenjojo	
	Lira	
	Luwero	
	Maracha	
	Masaka	
	Masindi	
	Mayunge	
	Mbale	
	Mbarara	
	Mityana	
	Moroto	
	Moyo	
	Mpigi	
	Mubende	
	Mukono	
	Nakapiripirit	
	Nakaseke	
	Nakasongola	

Namutumba

3/30/2020		LOT 3 - EU PESCA
	Nebbi	
	Ntungamo	
	Oyam	
	Pader	
	Pallisa	
	Rakai	
	Rukungiri	
	Sembabule	
	Sironko	
	Soroti	
	Tororo	
	Wakiso	
	Yumbe	
	Agago	
	Alebtong	
	Amudat	
	Buhweju	
	Buikwe	
	Bukedea	
	Bukomasimbi	
	Bulambuli	
	Butambala	
	Buvuma	
	Buyende	
	Gomba	
	Kalungu	
	Kibuku	
	Kiryandongo	
	Kole	
	Kween	
	Kyankwazi	
	Kyegegwa	
	Lamwo	
	Luuka	

3/30/2020		LOT 3 - EU PESCA
	Lwengo	
	Lyantonde	
	Manafwa	
	Mitooma	
	Namayingo	
	Napak	
	Ngora	
	Nwoya	
	Otuke	
	Rubirizi	
	Serere	
	Sheema	
	Zombo	
	Kagadi	
	Kakumiro	
	Omoro	
	Rubanda	
	Namisindwa	
	Pakwach	
	Butebo	
	Rukiga	
	Kyotera	
	Bunyangabu	
	Nabilatuk	
	Bugweri	
	Kasanda	
	Kwania	
	Kapelebyong	
	Kikuube	
	Obongi	
	Kazo	
	Rwampara	
	Kitagwenda	
	Madi-Okollo	

3/30/2020	LOT 3 - EU PESCA PROJECT	
Karenga		
Lusot		
Do you get customers from outside Ug	anda?	
Yes		
○ No		
What countries outside Uganda do you	ir customers come from?	
What untapped opportunities exist in the	hefish value chain?	
What challenges do you encounter infish value chain?		
Suggest solutions to address the challenges		
EXTENSION WORKERS		
Do you have any private extension wor	kers working in the district?	
Yes		
○ No		
O Do not know		
How many are they?		
How many are male?	_	
How many are female?		
How many fish farming households do	you have in the district?	
How many ponds do you have in the d	istrict?	

What is the estimated total pond area (m2)?		
What is the estimated annual totalfish (aquaculture) production?		
What type of feeds are used by the farmers?		
Certified commercial feed (Produced in Uganda and imported)		
Informal SMEs and cottage feed producers or importers		
Produced on-farm		
Household/domestic organic waste		
How do the fish farmers access the fish feed?		
What are the 5 most challenges faced byfish farmers in your district?		
What is your opinion aboutfish feed output in the district?		
What is your opinion about fish feed quality in the district?		
What is your opinion about fish feed reliability in the district?		
Suggest solutions to addressingfish feed related challenges		
What is the role of Fisheries Extension Workers (Government and Private) if ish fee d production, marketing and utilisation?		
Which negative environmental effects arise from fish feed production and usage?		
What is the level of women and youths involvement irfish production, marketing and utilisation?		
Which opportunities exist for women and youths in thefish production, marketing and utilisation?		
AGRONOMICS OF PRODUCTION OF FEED INGREDIENTS		
What of these crops do you produce?		
Maize		
Soya		
Sun Flower		
Cotton		
Sorghum		

Millet https://ee.kobotoolbox.org/x/#4kS1bBSj

How long have you been in the production of soya?	
1 - 2years	
3 - 5years	
6 - 10 years	
More than 10 years	
On how much land do you grow the soya?	
Less than or equal to 1 acre	
2 - 3 acres	
4 - 10 acres	
Greater than 10 acres	
What is your estimated yearly production (kg) of Sun Flower?	

What p	proportion of the sunflower is used or processed for home consumption?
	Greater than 70%
	Greaterthan50%to70%
	Greaterthan30%to50%
	Less than 30%
	0%
How Id	ong have you been in the production of surflower?
	1 - 2years
	3 - 5years
	6 - 10 years
	More than 10 years
On ho	w much land do you grow the Sunflower?
	Less than or equal to 1 acre
	2 - 3 acres
	4 - 10 acres
	Greater than 10 acres
What i	s your estimated yearly production (kg) of cotton?
What p	proportion of the cotton is used or processed for home consumption?
	Greater than 70%
	Greaterthan50%to70%
	Greaterthan30%to50%
	Less than 30%
	0%
How Id	ong have you been in the production of surflower?
	1 - 2years
	3 - 5years
	6 - 10 years
	More than 10 years

On hov	w much land do you grow the Cotton?
	Less than or equal to 1 acre
	2 - 3 acres
	4 - 10 acres
	Greater than 10 acres
What is	s your estimated yearly production (kg) of Sorghum?
What p	proportion of the sorghum is used or processed for home consumption?
	Greater than 70%
	Greaterthan50%to70%
	Greaterthan30%to50%
	Less than 30%
	0%
How Io	ng have you been in the production of Sorghum?
	1 - 2years
	3 - 5years
	6 - 10 years
	More than 10 years
On hov	v much land do you grow the Sorghum?
	Less than or equal to 1 acre
	2 - 3 acres
	4 - 10 acres
	Greater than 10 acres
What is your estimated yearly production (kg) of millet?	

https://ee.kobotoolbox.org/x/#4kS1bBSj

What proportion of the millet is used or processed for home consumption?	
	Greater than 70%
	Greaterthan50%to70%
	Greaterthan30%to50%
	Less than 30%
	0%
How Io	ong have you been in the production of millet?
	1 - 2years
	3 - 5years
	6 - 10 years
	More than 10 years
On how much land do you grow the Sorghum?	
	Less than or equal to 1 acre
	2 - 3 acres
	4 - 10 acres
	Greater than 10 acres
What is your estimated yearly production (kg) of cassava?	
What p	proportion of the cassava is used or processed for home consumption?
	Greater than 70%
	Greaterthan50%to70%
	Greaterthan30%to50%
	Less than 30%
	0%
How Id	ong have you been in the production of cassava?
	1 - 2years
	3 - 5years
	6 - 10 years
	More than 10 years

On ho	w much land do you grow the cassava?
	Less than or equal to 1 acre
	2 - 3 acres
	4 - 10 acres
	Greater than 10 acres
What is	s your estimated yearly production (kg) of wheat?
What p	proportion of the wheat is used or processed for home consumption?
	Greater than 70%
	Greaterthan50%to70%
	Greaterthan30%to50%
	Less than 30%
	0%
How Io	ong have you been in the production of wheat?
	1 - 2years
	3 - 5years
	6 - 10 years
	More than 10 years
On hov	w much land do you grow the wheat?
	Less than or equal to 1 acre
	2 - 3 acres
	4 - 10 acres
	Greater than 10 acres
What is your estimated yearly production (kg) of barley?	

https://ee.kobotoolbox.org/x/#4kS1bBSj

What	proportion of the barley is used or processed for home consumption?
	Greater than 70%
	Greaterthan50%to70%
	Greaterthan30%to50%
	Less than 30%
	0%
How Id	ong have you been in the production of barley?
	1 - 2years
	3 - 5years
	6 - 10 years
	More than 10 years
On how much land do you grow the barley?	
	Less than or equal to 1 acre
	2 - 3 acres
	4 - 10 acres
	Greater than 10 acres
What is your estimated yearly production (kg) of rice?	
What p	proportion of the rice is used or processed for home consumption?
	Greater than 70%
	Greaterthan50%to70%
	Greaterthan30%to50%
	Less than 30%
	0%
How Id	ong have you been in the production of barley?
	1 - 2years
	3 - 5years
	6 - 10 years
	More than 10 years

On how much land do you grow the rice?
Less than or equal to 1 acre
2 - 3 acres
4 - 10 acres
Greater than 10 acres
What is your estimated yearly production (kg) of groundnuts?
What proportion of the groundnut is used or processed for home consumption?
Greater than 70%
Greaterthan50%to70%
Greaterthan30%to50%
Less than 30%
0%
How long have you been in the production of groundnuts?
1 - 2years
3 - 5years
6 - 10 years
More than 10 years
On how much land do you grow the groundnut?
Less than or equal to 1 acre
2 - 3 acres
4 - 10 acres
Greater than 10 acres
What is your estimated yearly production (kg) of the others?
What proportion of the other crops is used or processed for home consumption? e.g. palm trees - greater than 70%, sweet potatoes - 0% etc.
How long have you been in the production of other crops?
On how much land do you grow the the other crops mentioned above?

HOW IT	nuch more extra land do you have that you can put to the increased production of the above mentioned crops?	
\bigcirc	None	
\bigcirc	1 - 2acres	
\bigcirc	3 - 5acres	
\bigcirc	6 - 10 acres	
\bigcirc	Over 10 acres	
Which crops?	of the following agronomic practices/ technologies do you use more often in your farming of the above listed?	
	Improved seed	
	Inorganic fertilizers	
	Organic fertilizers	
	Herbicides	
	Pesticides	
	Water conservation (water trenches in the garden)	
	Soil erosion control (mulching, contour strips etc.)	
	Nutrient conservation (timeliness of planting, weeding)	
	Irrigation	
	Others (Specify)	
	None	
If others, please specify the agronomic agronomic practices/ technologies do you use more often in your farming of the above listed crops		
Where	do you get your farm inputs (seeds, fertilisers, etc.)?	
	I buy from agro input shops	
	From other farmers	
	From own seed bank	
	From government programs	
	Others (specify)	
If othe	rs, please specify the source of the farm inputs	
Do you	u produce the crops for selling?	
\bigcirc	Yes	
\bigcirc	No	

	access
	I wait for buyers from home
	I call specific buyers to come and pick the produce
	I take produce to the buying centres near me
	I sell to our association or group
	Other (specify)
If othe	rs, please specify how youfind the market for the produce
Who is	s your biggest buyer?
	Local producer buyers
	Local produce stores
	Moving buyers with lorries
	Large stores in trading centres
	Millers
	Feed processors
	Large producer buyers and exporters
	Others
If others, please specify your biggest buyer	
How d	o you handle your produce after harvest?
	Dry and sell
	Dry, clean and sell
	Dry, clean, store and wait for good price
	Dry, clean, and take to warehouse receipt system
	Others
If others, please specify how you handle the produce after harvest	
At what production stage do you sell your produce?	
	From garden to market
	Garden –short term storage-market
	Garden-long term storage –market

Are you	a aware of the existence of the need for ingredients for production offish feed on the market?
\bigcirc	Yes
\bigcirc	No
Wouldy produc	ouconsiderproducingingredientssolelyforpurposesofsellingtfüshfeedingredientsuppliersortofishfeed ers?
\bigcirc	Yes
\bigcirc	No
lfNo,wh	nywould'tyouproduceingredientssolelyforpurposesofsellingttishfeedingredientsuppliersortofishfeed producers
-	are provided with thefish feed market, how much MAIZE in terms of volume do think you can be able to produce ar of the crops you are currently producing?
	Less than 100kg
	100 - 500kg
	>500 - 1000kg
	Greater than 1000kg
-	reprovidedwiththefishfeedmarket,howmuchSOYAintermsofvolumedothinkyoucanbeabletoproduce rofthecropsyouarecurrentlyproducing?
	Less than 100kg
	100 - 500kg
	>500 - 1000kg
	Greater than 1000kg
-	reprovidedwiththefishfeedmarket,howmuchSUNFLOWERintermsofvolumedothinkyoucanbeableto reinayearofthecropsyouarecurrentlyproducing?
	Less than 100kg
	100 - 500kg
	>500 - 1000kg
	Greater than 1000kg

If you are provided with the fish feed market, how much COTTON in terms of volume do think you can be able to produce in a year of the crops you are currently producing?
Less than 100kg
100 - 500kg
>500 - 1000kg
Greater than 1000kg
If you are provided with thefish feed market, how much SORGHUM in terms of volume do think you can be able to produce in a year of the crops you are currently producing?
Less than 100kg
100 - 500kg
>500 - 1000kg
Greater than 1000kg
If you are provided with thefish feed market, how much MILLET in terms of volume do think you can be able to produce in a year of the crops you are currently producing?
Less than 100kg
100 - 500kg
>500 - 1000kg
Greater than 1000kg
Ifyouareprovidedwiththefishfeedmarket,howmuch CASSAVAintermsofvolumedothinkyoucanbeableto produceinayearofthecropsyouarecurrentlyproducing?
Less than 100kg
100 - 500kg
>500 - 1000kg
Greater than 1000kg
If you are provided with thefish feed market, how much WHEAT in terms of volume do think you can be able to produce in a year of the crops you are currently producing?
Less than 100kg
100 - 500kg
>500 - 1000kg
Greater than 1000kg

Ifyouareprovidedwiththefishfeedmarket,howmuchBARLEYintermsofvolumedothinkyoucanbeableto produceinayearofthecropsyouarecurrentlyproducing?
Less than 100kg
100 - 500kg
>500 - 1000kg
Greater than 1000kg
Ifyouareprovidedwiththefishfeedmarket,howmuchRICEintermsofvolumedothinkyoucanbeabletoproduce inayearofthecropsyouarecurrentlyproducing?
Less than 100kg
100 - 500kg
>500 - 1000kg
Greater than 1000kg
If you are provided with thefish feed market, how much GROUNDNUTS in terms of volume do think you can be able to produce in a year of the crops you are currently producing?
Less than 100kg
100 - 500kg
>500 - 1000kg
Greater than 1000kg
Ifyouareprovidedwiththefishfeedmarket,howmuchoftheOTHERCROPSintermsofvolumedothinkyoucanbe abletoproduceinayearofthecropsyouarecurrentlyproducing?
If alternative or non-conventional crops are identfied specifically for fish feed ingredients with guaranteed market, would you be in position to engage in production of those ingredients e.g. Leucaena and Mung bean)?
Yes
○ No
If yes, why would you in position to engage in production of those ingredients?
If no, why wouldn't you in position to engage in production of those ingredients?
How much land can you dedicate to the alternative crops?
None
1 - 2acres
3 - 5acres
6 - 10 acres
Over 10 acres

What a	assistance would you require to start producing alternative sources of ingredients?
	Knowledge on how to grow
	Seed
	Assurance of market
	Others (specify)
If othe	rs, please specify the assistance you would require
What is	s your limiting factors or constraints to increased production of the above mentioned crops?
	Lack of market for the produce
	Lack of storage
	Low prices
	Pests and vermin
	Land for production
	Prolonged drought
	Excessive water
	Flooding
	Short rains
	Erratic weather
	Poor water supply
	Poor soil fertility
	Poor quality of inputs
	Lack of inputs(seed)
	No alternative uses or benefits of crops
	Others (specify)
	None
If othe	rs, please specify the limiting factors
POL	ICY: MAAIF-DIFR-DAMD, FINANCE/PLANNING, TRADE/INDUSTRY/COMMERCE
How m	nany fish feed production factories exist in Uganda?
	s the geographical distribution of the fish feed production factories (Name and Location)? the name and location e.g. Ugachick Fish Factory in Magyinje, Wakiso District, KARDC feed mill in Kajjansi, Wakiso District etc.

What types of statistics are available on fish feeds in your department?
How are the statistics onfish feed generated/collected?
In what ways to the current laws and policy prohibit women and youth involvement in the fish feed value chain?
Too restrictive in terms of requirements.
Too costly in implementing the requirements
Do not guide and protect women and youth involvement in feed value chain.
Allowformanyunscrupulousplayersandactorsinthefeedvaluechainthatlimitswomenandyouthparticipation.
Others(Specify)
Ifothers,pleasethewaysthecurrentlawsandpolicyprohibitwomenandyouthinvolvementinth@shfeedvalue chain
What can be done to make the policies and regulations gender responsive?
Reviewtoincludeaffirmativeactionandcreationofspaceforwomenandyouthinvolvementinthefeedvaluechain.
Provideforaccesstocapitalandtrainingforwomenandyouth.
Create incentives for leading actors in the business of feed to enrol and support women and youth actors in the feed value chain.
Improve the restriction against speculators and middlemen who take advantage of women and youth.
Others (specify).
If others, please specify how to make the he policies and regulations gender responsive
Reviewtoincludeaffirmativeactionandcreationofspaceforwomenandyouthinvolvementinthefeedvaluechain.
Provideforaccesstocapitalandtrainingforwomenandyouth.
Create incentives for leading actors in the business of feed to enrol and support women and youth actors in the feed value chain.
Improve the restriction against speculators and middlemen who take advantage of women and youth.
Others (specify).
If others, please specify how the polices and regulations can be made gender sensitive
What challenges are encountered in the collection of data onfish feeds in Uganda?
EMPLOYMENT DATA How many employees (including yourself) do you have?

What is the AGE BRACKET of the employees (including yourself)?
Below 18 Years
18 - 30 Years
Above 30 Years
What are their employment terms?
Permanent
Temporary
HowmanyMALES(below18years)areemployedonaPERMANENTBASIS?
HowmanyMALES(below18years)areemployedonaTEMPORARYBASIS?
How many MALES (18 - 30 years) are employed on a PERMANENTBASIS?
How many MALES (18 - 30 years) are employed on a TEMPORARYBASIS?
How many MALES (Above 30 years) are employed on a PERMANENTBASIS?
HowmanyMALES(Above30years)areemployedonaTEMPORARYBASIS?
How many FEMALES (below 18) are employed on a PERMANENT BASIS?
How many FEMALES (Below 18 years) are employed on a TEMPORARY BASIS?
How many FEMALES (18 - 30 years) are employed on a PERMANENT BASIS?

How many FEMALES (Above 30 years) are employed on a PERMANENTBASIS?	

HowmanyFEMALES(Above30years)areemployedonaTEMPORARYBASIS?

GPS Location

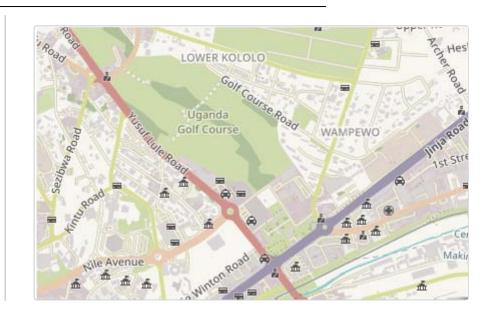
Take a GPS point in the place

latitude (x.y°)

longitude (x.y°)

altitude (m)

accuracy (m)



PICTORIAL

PHoto I

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Photo X

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End Time

End of Interview

hh:mm