

Households Questionnaire Survey

Local Participants Downstream and Upstream

Assessing mega-dam economic contribution and social, political and environmental issues in development context.

Introduction

The purpose of this questionnaire is to solicit your opinion and perception about large dams and their role in the development of a nation, particularly Sudan. This will be looked at within the context of the Merowe Dam project. This interview into large dams is part of research towards a Doctor of Philosophy Degree at the University of Plymouth UK. I therefore thank you for sparing some of your time to discuss this topic with me.

Basic background information

Participant ID: -----

Q1- Name of Village / Community / Settlements: -----

Q2- Age of participant		
Q3- Gender	Male	
	Female	
Q4- Level of education		
Q5- Number of household members (including children)	Male	
	Female	

Q6- What type of farming do you do? (please order in terms of importance)	Date palm trees	
	Vegetables	
	Arable crops	
	Livestock	
	Others (If others, please specify) -----	

Q7- What proportion of your total income is derived from these sources (please provide percentage values)	Farming		%
	Fishing		%
	Trading/ Selling		%
	Others (If others, please specify) -----		%

Merowe Dam

Q8- How do you feel about the presence of the dam? -----

Q9- What do you think are the main purposes of Merowe Dam? -----

Rate the following indicators (1-5) based on observed influence to you since the construction of Merowe Dam (1 is Strongly disagree, 2 Disagree 3 Neutral, 4 Agree and 5 Strongly agree)	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Q10- Economic					
a. Irrigation of agriculture	1	2	3	4	5
b. Industrial development in the region	1	2	3	4	5
c. Employment generation	1	2	3	4	5
d. Infrastructure (e.g. bridges, roads, hospital, schools)	1	2	3	4	5
e. Access to electricity	1	2	3	4	5
f. Communication network (e.g. telephone, internet)	1	2	3	4	5
g. Transportation across the region (e.g. travel)	1	2	3	4	5
h. Sources of income (e.g. market and working places)	1	2	3	4	5
i. Cost of electricity	1	2	3	4	5
j. Price of assets (e.g. business, land, stocks)	1	2	3	4	5
Q11- Economic (farming)					
a. Types of farm production	1	2	3	4	5
b. Volume of farm production	1	2	3	4	5
c. Grazing area for animals	1	2	3	4	5
d. Land size	1	2	3	4	5
e. Quality of the soil	1	2	3	4	5
f. Cost of irrigation	1	2	3	4	5
g. Price of farm products (e. g. date, vegetables)	1	2	3	4	5
Q12- Social					
a. Home space and structure	1	2	3	4	5
b. Family ties and social relations	1	2	3	4	5
c. Community coherence	1	2	3	4	5
d. Social status	1	2	3	4	5
e. Farm land as measure of wealth and pride (e.g. date trees)	1	2	3	4	5
f. Archaeological and historical sites	1	2	3	4	5
g. Feeling of belonging to the place	1	2	3	4	5
h. Mental health	1	2	3	4	5
i. Personal Health	1	2	3	4	5
j. Self-esteem	1	2	3	4	5
k. Children schooling	1	2	3	4	5
l. Quality of life (work, schools water, electricity, etc.)	1	2	3	4	5
Q13- Environment					
a. Spread of Waterborne diseases(e.g. bilharzias)	1	2	3	4	5
b. Habitats communities along the river bank	1	2	3	4	5
c. Wildlife,	1	2	3	4	5
d. Forests	1	2	3	4	5
e. Water Logging	1	2	3	4	5
f. Salinisation	1	2	3	4	5
g. Erosion (wearing of soil, dirt, rock by water force)	1	2	3	4	5
h. Sedimentation	1	2	3	4	5
i. Water supply	1	2	3	4	5
j. Water flow	1	2	3	4	5
k. Distance to the river bank	1	2	3	4	5
l. Flooding	1	2	3	4	5

Q14- Please can you rank up to three the most important benefits of Merowe Dam to you? -----

Q15- Please can you rank up to three the most important three benefits of Merowe Dam to your community? -----

Q16- What contributions do you think Merowe Dam has made to the development of the region since its construction? -----

Q17- Have economic matters, identified above in question 10 and 11 have been addressed? -----

Q18- Do you think the perceived social issues identified in question 12 above have been addressed. -----

Q19- Has environmental issues identified in question 13 above been addressed? -----

Downstream

Q20- Since building of the dam has your land area changed in size.

Yes

No

Q21- How much land do you have (feddan)-----	(a)Irrigated	Rain-fed	(b) What was your land size before the dam?	(c)How much extra land do you irrigate after building Merowe Dam?	
				Before	After
Own					
Rent					

Q22- How the change in water regime affect you farm production? -----

Q23- Is there an increased in the cost of irrigation because of the dam?-----

Q24- Has the change in land size affected your income?

Yes

No

Q25- To what extent if yes has, the dam (elaborate in percentages) affected the level of your income?-----

Upper-Stream

Q26- Please explain why you are still living here by the reservoir?-----

Q27- Have you received compensation for properties lost ((e.g. properties, houses, land, agriculture and agricultural products (palm and fruits and livestock)? -----

Q28- How much did you receive? -----

Q29- Were you satisfied with the compensation you received? -----

Q30- Were you been given any other form of support in addition to financial (e.g. counselling, mental therapy)? Yes No

Q31- Can you specify the nature of the support you received? -----

Q32- Which organisation(s) or institution(s) where involved in supporting you? -----

Q33- In your opinion was there a lack of support? -----

Q34- If yes could please explain why there was a lack of support? -----

Q35- To what extent are you satisfied with new settlement compared to your old place? -----

Q36- Does the new location have adequate services such as (select all relevant option)?

- | | | |
|--|--------------------------------------|---|
| <input type="checkbox"/> Health facilities | <input type="checkbox"/> Electricity | <input type="checkbox"/> Schools |
| <input type="checkbox"/> Leisure centre | <input type="checkbox"/> Water | <input type="checkbox"/> Urban Centre (market and work place) |

Q37- What is your assessment of the resettlement location as compared to your old place in terms of facilities (e.g. health, schools water, electricity)? -----

Q38- To what degree has the distance changed between the new farm and your home compared to how it was before the dam, (please explain in kilometres)? -----

Q39- How has the change in distance affected your life? -----

Q40- Has building the dam caused any conflict of land right in the old settlement alongside claims in the new settlement? Yes No

Q41- If yes, how serious is the conflict? -----

Q42- In your opinion has building the dam caused any social conflict amongst communities (please explain)? -----

Q43- How about your relation with friends and relatives at old community? -----

Q44- Do you know any household in your village/community have left the area completely because of the dam? -----

Q45- Have you or a member of your family been ill because of waterborne disease caused by building of the dam? Yes No

Q46-If yes, what kind of common diseases do you or your household suffer from	(a) the frequencies		(b) What do you think are the main reasons?
	Before 2004	After 2004	
Malaria			
Cholera			
Bilharzias			
Typhoid			
Chest problems			

Other				
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Q47- In your opinion have you received a fair share of the economic benefits of the dam (please explain)?-

Q48- How about your community have they received a fair share of the economic benefits of the dam (please explain)?-----

Q49- Was there a period of consultation with you before the construction of Merowe Dam?

Yes

No

Q50- If your answer is yes, what was the nature of the consultation? -----

Q51- What do you think about the duration of consultation? -----

Q52- Was the consultation process (if any) open (please explain)? -----

Q53- Was the consultation process (if any) involve everyone in your community (please explain)? -----

Q54-In your opinion was Merowe Dam project a result of consensus of local/regional stakeholders? -----

Q55- What do you think of the on-going opposition from many of (Hamadab, Amri and Manasir communities) against Merowe Dam? -----

Q56- Who do you think are the key decision makers in Merowe Dam development? -----

Q57- What role do you think political influences play in the decision to build Merowe Dam? -----

Q58- Do you think there could have been alternatives to building Merowe Dam?

Yes

No

Q59- If yes, can you give examples? -----

Q60- Finally, what is your opinion on the overall building of Merowe Dam? -----

Thank you for taking some of your time to answer the questions. Please feel free to add any comments that you may have.